

**SMHB**

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DAMS ENGINEERED, REVIEWED OR INSPECTED BY SMHB AND ASSOCIATED FIRMS

* updated March 2023

Project Title	Type	Purpose (see note #1)	Spillway	Height (m)	Crest Length (m)	Consultancy Services Provided (see note #2)	Year of Service, Design/ Construction	Storage (MCM)
1. Feasibility Study for An Alternative Water Supply Source - Proposed Bukit Panchor ORS and WTP Scheme	Earthfill	WS	-	35	200	S	2022	-
2. Sungai Selangor Dam Safety Review	Rockfill	WS	Chute	110	750	I	2021	235
3. Forensic Engineering Studies for Pedu Dam Comprehensive Rehabilitation Project	Rockfill with upstream asphaltic concrete membrane	IR	Overflow spill	61	220	I	2021	1073
4. Formal Safety Inspection for Durian Tunggal Dam, Alor Gajah, Melaka	Earthfill	WS	Bellmouth	25	232	I	2020	30.4
5. Dam Safety Review for 2017 of ORS Sg. Labu	Earthfill	WS	Drop Inlet	37	700	i	2017	10.5
6. Dam (Teluk Bahang and Air Itam dams) Safety Inspection & Aqueduct Slope Failure Assessment, Penang	Various	Various	Various	Various	Various	I	2015	Various
7. Cadangan Pembinaan Empangan Kampar dan Kerja-kerja Berkaitan Bekalan Air	Various	Various	Various	Various	Various	S	2015	-
8. Jerneh ORS (Dam), Melaka	Earthfill	WS	Open Chute	30	-	D/C	2015 – 2020 (ongoing)	-
9. Upgrading of Bekok Dam, Johor	Earthfill	WS/FM	Ungated Ogee Crested	20.3	3460	S/D/C	2014	32
10. Feasibility Study and Detailed Design of Construction of Raw Water Dam for Keningau Water Supply	Various	Various	Various	Various	Various	S/D	2014	-

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11. Dam Safety Inspection and Preparation of Operation, Maintenance and Surveillance Manual for Juaseh, Lebam, Congok, Pulau I, Pulau II, Pulau III, Pontian Kechil, Upper Layang and Lower Layang Dams	Various	Various	Various	Various	Various	I	2014	Various
12. Jerneh Dam, Melaka	Earthfill	WS	Open Chute	30	-	S	2014	-
13. Seluyut Dam, Johor	Earthfill	WS	Chute	27	350	S/D	2013 - 2016	70
14. Preliminary Study for Mengalong Dam, Sabah	Various	Various	Various	Various	Various	S	2013	-
15. Dam Break Analysis & Emergency Action Plan for Pahang-Selangor Raw Water Transfer Project	Earthfill	WS	Chute	28	400	I	2013	150
16. Lihak-Lihak Dam, Semporna, Sabah	Earthfill	WS	Drop Inlet	18	355	D	2011 - 2013	1
17. Bukit Kuda Dam – Stormwater Augmentation and Integrated Water Supply and Demand Management, Labuan	Earthfill	WS	Chute	14	-	S	2011	4.2
18. Dam Safety Inspection of Juaseh, Congok and Lebam Dams	Various	Various	Various	Various	Various	I	2011	Various
19. Labu Off-River Storage, Selangor	Earthfill	WS	Drop Inlet	37	700	S/D/C	2009 – 2011	10.5
20. Pre-Feasibility Study for Dams on Bandau-Bongon Rivers, Kota Marudu, Sabah	Various	Various	Various	Various	Various	S	2009 - 2012	-
21. Teriang Dam, Negeri Sembilan	Earthfill	WS	Chute	68	300	S/D/C	2009 - 2016	62.5
22. Kargu Dam, Brunei	Earthfill	WS	Chute	16	420	Advise	2009	-
23. Kota Kinabalu Water Supply Phase 3 (Kaiduan Dam) Sabah	Rockfill	WS/HY	Chute	120	750	D	2009 - 2010	175
24. Kerian-Selama HPP, Perak	RCC and Rockfill	HY	Various	60-90	Various	S	2008 - 2009	-
25. Kota Kinabalu Water Supply Phase 3 (Kaiduan Dam) Sabah	Rockfill	WS/HY	Chute	120	750	S	2008 - 2009	175

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26. Kelau Dam, Pahang	Earthfill	WS	Chute	28	400	S/D/C	2007 - 2016	150
27. Kenyir Dam and Eight Saddle Dams	Rockfill/ Earthfill	HY	Chute	155 max	-	I	2006 - 2007	13,600
28. Pedu, Muda and Ahning Dams	Various	IR	Chute	Various	-	I	2006 - 2007	Various
29. Langat, Kelang Gates & Tasik Subang Dams	Various	WS	Various	Various	-	I	2005	Various
30. Sandakan Water Supply Phase II (Betotan Dam) Sabah	Earthfill	WS	Open Chute	30	1,600	S/D/C	2004 - 2008	35
31. Mophanshan Dam, China	Rockfill	WS	Open Chute	50	300	R	2004 - 2007	-
32. Jerneh Dam, Melaka	Earthfill	WS	Open Chute	30	-	S/D	2003	10
33. Milau Dam, Sabah	Earthfill	WS	Bellmouth	30	240	S/D/C	2003 - 2010	35
34. Bakun Dam, Sarawak	Concrete faced rockfill	HY	Open Chute	205	750	R	2003 - 2012	44000
35. Gelami Lemi Dam, Jelebu	Earthfill	FP	Chute	20	160	R	2003	-
36. Raising of Sg. Tinggi Dam, Selangor	Earthfill	WS	Bellmouth	2.5	270	S/D/C	2002 - 2003	120
37. Sg. Tinggi Dam, Selangor	Earthfill	WS	Bellmouth	36	270	I	2002	120
38.								
39. Bakun Dam, Sarawak	Concrete faced rockfill	HY	Open Chute	205	750	D (Turnkey)	2002	44000
40. Jus Dam, Melaka	Earthfill	WS	Bellmouth	28	1,000	S/D/C	2001 - 2003	48
41. Telibong – Off-river Storage, Sabah	Earthfill	WS	Chute	25	400	S/D/C	2001 - 2008	13.5
42. Sg. Semenyih Dam, Selangor	Earthfill	WS	Bellmouth	49	800	I	2001	60
43. Gerugu Dam, Sarikei, Sarawak	Earthfill	WS	Bellmouth	33	220	S/D/C	2000 - 2009	13
44. Kerteh Integrated Petrochemical Complex – Off-river Storage, Terengganu	Earthfill	WS	Chute	25	650	S/D/C	1999 - 2002	16
45. Telemong, Pahang	Earthfill	WS	Chute	40	700	S	1999 - 2000	-
46. Sg. Selangor Dam, Selangor	Rockfill	WS	Chute	110	750	S/D/C	1998 - 2003	235

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47. Raising of Pinangsoo Spillway, Sabah	Earthfill	WS	Chute	12	65	S/D/C	1998	0.24
48. Chereh Dam, Pahang	Earthfill	WS	Chute	48	500	S/D/C	1997 - 2008	260
49. Teluk Bahang Dam, Pulau Pinang	Earthfill	WS	Chute	46	700	C	1996 - 2000	21
50. Tanah Jambu, Brunei	Earthfill	IR	Bellmouth	14	150	S/D/C	1995 - 1998	-
51. Pinangsoo Dam, Sabah	Earthfill	WS	Chute	12	65	I	1995	-
52. Muda, Pedu, Ahning Dams, Kedah	Various	IR	Various	Various	Various	I	1995 - 1996	Various
53. Ampangan Dam, Brunei	Earthfill	IR	Chute	8	300	S/D	1995	-
54. Langat, Kelang Gates & Meru Dams	Various	WS	Various	Various	Various	I	1995	Various
55. Sg. Buloh (Tinggi) Dam, Selangor	Earthfill	WS	Bellmouth	36	270	S/D/C	1994 - 1996	120
56. Raising of Lebam Dam	Earthfill	WS	Bellmouth	13	380	S/D/C	1991 - 1992	-
57. Babagon Dam, Sabah	Earthfill	WS	Bellmouth	65	320	R/D	1990-1992	13.3
58. Pulau Tekong Dam, Singapore	Earthfill	WS	Ogee Crest	-	-	I/R	1990	-
59. Raising of Durian Tunggal Dam	Earthfill	WS	Bellmouth	2	232	S/D/C	1990 - 1991	-
60. Linggiu Dam, Johor	Earthfill	WS	Side Channel	36	550	S/D/C	1989-1992	760
61. Air Kuning (Taiping) Dam, Perak	Earthfill	WS	Crump Weir	28	550	S/D/C	1987-1991	1.9
62. Kranji & Pandan Dams, Singapore	Earthfill	WS	Gated Concrete Structure	Various	Various	I/R	1987	Various
63. Raising of Congok Dam, Johor	Earthfill	WS	Concrete Extension	2	700	S/D/C	1987 - 1990	0.954
64. Pedas Dam, Negeri Sembilan	Mass Gravity	WS	Ogee Crest	21	111	S/D/C	1987 - 1991	0.525
65. Juaseh Dam, Negeri Sembilan	Earthfill	WS	Bellmouth	30	240	S/D/C	1987 - 1991	33.2
66. Upper Muar Dam, Negeri Sembilan	Earthfill	WS	Side Channel	48	270	S/D/C	1987 - 1991	53
67. Malut Dam, Kedah	Rock/Earthfill	WS	Side Channel	44	265	R	1985	7.16
68. Ahning Dam, Kedah	Rockfill/ Concrete Face	WS/IR/FM	Side Channel	74	270	R	1985	275

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69. Paka (Bukit Bauk) Bunded Storage, Terengganu	Earthfill	WS	-	19	873	S/D/C	1983 - 1985	0.19
70. Dungun (Serdang) Bunded Storage, Terengganu	Earthfill	WS	-	8	479	S/D/C	1983 - 1985	0.19
71. Kemaman Bunded Storage, Terengganu	Earthfill	WS	-	10	1,215	S/D/C	1983 - 1985	0.13
72. Jeniang Diversion Barrage, Kedah	Reinforced Concrete	IR/FM	Vertical Gates	3	39	S/D	1985	-
73. Naok Dam, Kedah	Earthfill	IR/FM	Bellmouth	17	2,670	S/D	1985	28
74. Terip Dam, Negeri Sembilan	Earthfill	WS	Bellmouth	40	500	S/D/C	1981 - 1985	48
75. Semenyih Dam, Selangor	Earthfill	WS	Bellmouth	49	800	S/D/C	1981 - 1984	62.6
76. Langat Dam, Selangor	Earthfill	WS	Bellmouth	61	610	I	1981 - 1982	-
77. Sg. Kuantan Barrage, Pahang	Reinforced Concrete	WS/FM	Vertical Gates	13	100	S/D/C	1980 - 1985	-
78. Jor Dam, Perak	Earthfill	HY	Bellmouth Siphon	24	142	I	1980	3.9
79. Mahang Dam, Perak	Earthfill	HY	Bellmouth	20	229	I	1980	0.40
80. Upper Pierce Dam, Singapore	Earthfill	WS	Bellmouth	2	397	S/D/C	1980 - 1981	-
81. Raising Seletar Dam, Singapore	Earthfill	WS	Bellmouth	2	600	S/D/C	1980 - 1981	-
82. Upper Pierce Dam, Singapore	Earthfill	WS	Bellmouth	28	397	I/R	1979/1990	-
83. Lower Pierce & Mac Ritchie Dams Singapore	Earthfill	WS	Ogee Crest	-	-	I/R	1979/1990	-
84. Seletar Dam, Singapore	Earthfill	WS	Bellmouth	2	600	I/R	1979/1990	-
85. Habu Weir, Pahang	Concrete	HY	Ogee Crest	10	34	I	1979	-
86. Ringlelet Falls Dam, Pahang	Concrete/ Rockfill	HY	Crest Radial Gates	40	114	I	1979	6.7
87. Pontian Kechil Dam, Johor	Earthfill	WS	Side Channel	20	137	I/R	1979/1990	68.5

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88. Pulai I & II Dams, Johor	Earthfill & Concrete	WS	Ogee Crest	5	162	I/R	1979/1990	197.5
89. Pulai II Dam, Johor	Masonry	WS	Ogee Crest	37	130	I/R	1979/1990	-
90. Nilai Estate Dam, Negeri Sembilan	Earthfill	WS	Side Channel	6	40	S/D/C	1978-1979	-
91. Bukit Benut Estate Dam, Johor	Mass Concrete	WS	Ogee Crest	7	60	S/D/C	1977 - 1978	-
92. Lebam Dam, Johor	Earthfill	WS	Bellmouth	2	380	S/D/C	1976 - 1978	3.1
93. Langat Dam, Selangor	Earthfill	WS	Bellmouth	61	610	S/D/C	1976 - 1979	35.49
94. Ayer Itam Dam, Pulau Pinang	Earthfill	WS	Bellmouth	52	245	I	1976	2.6
95. Upper Pierce Dam, Singapore	Earthfill	WS	Bellmouth	28	397	S/D/C	1974 - 1976	-
96. Durian Tunggal Dam, Melaka	Earthfill	WS	Bellmouth	23	244	S/D/C	1974 - 1976	36.2
97. Sg. Muda Barrage, Pulau Pinang	Reinforced Concrete	WS/FM	Radial Gates	2 (gates)	82	S/D/C	1969 - 1972	-
98. Pinangsoo Dam, Sabah	Earthfill	WS	Side Channel	14	70	S/D/C	1968 - 1970	0.24
99. Seletar Dam, Singapore	Earthfill	WS	Bellmouth	29	600	S/D/C	1967 - 1969	-
100. Damansara Dam, Selangor	Earthfill	WS	Bellmouth	18	122	S/D/C	1964 - 1966	0.009
101. Tasek Dam, Brunei	Earthfill	WS	Bellmouth	21	84	S/D/C	1962 - 1964	-
102. Mahang Dam, Perak	Earthfill	HY	Bellmouth	20	229	S/D/C	1962 - 1968	0.40
103. Jor Dam, Perak	Earthfill	HY	Bellmouth Siphon	46	209	S/D/C	1962 - 1968	3.9
104. Ayer Itam Dam, Pulau Pinang	Earthfill	WS	Bellmouth	52	245	S/D/C	1960 - 1962	2.6
105. Habu Weir, Pahang	Concrete	HY	Ogee Crest	10	34	S/D/C	1954 - 1963	-
106. Ringlet Falls Dam, Pahang	Concrete/ Rockfill	HY	Crest Radial Gates	40	114	S/D/C	1954 - 1963	6.7
107. Pontian Kechil Dam, Johor	Earthfill	WS	Side Channel	20	137	S/D/C	1922 - 1932	68.50
108. Pulai I & II Dams, Johor	Earthfill & Concrete	WS	Ogee Crest	5	162	S/D/C	1922 - 1932	

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109. Pulau II Dam, Johor	Masonry	WS	Ogee Crest	37	130	S/D/C	1922 - 1932	

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