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JABATAN PERANGKAAN MALAYSIA

SEMENANJUNG MALAYSIA
PENINSULAR MALAYSIA

SIARAN KHAS
Special Release

1

(UNTUK KERJA-KERJA KEJURUTERAAN AWAM)
(For Civil Engineering Works)

JANUARI 2022
JANUARY

Pemakluman / Announcement:

Jabatan Perangkaan Malaysia sedang menjalankan Survei Pendapatan, Perbelanjaan Isi Rumah dan Kemudahan Asas (HIES/BA) 2022 bermula dari 1 Januari 2022 sehingga 31 Disember 2022.

Department of Statistics Malaysia is conducting Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1st January 2022 until 31st December 2022.

Dimaklumkan bahawa Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah
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*Please be informed that the Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20 each year. MyStats Day theme is
"Connecting the World with Data We Can Trust"*

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

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“Sumber: Jabatan Perangkaan Malaysia”.

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JADUAL
TABLE

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Jadual 1: Harga unit purata bagi bar keluli dan simen
Table 1: Average unit prices for steel bars and cement

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.1 Bar Bulat Keluli Lembut BS-4449 <i>Mild Steel Round Bars BS-4449</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
1.1.1 10mm (3/8")	2021 Dis	3197.01	2635.11	3205.79
	2022 Jan	3197.01	2666.71	3205.79
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
1.1.2 12mm (1/2")	2021 Dis	3207.25	2642.48	3080.79
	2022 Jan	3207.25	2678.38	3080.79
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
1.1.3 16mm (5/8")	2021 Dis	3226.04	2660.63	2995.82
	2022 Jan	3226.04	2701.61	2995.82
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 1: Harga unit purata bagi bar keluli dan simen (samb.)

Table 1: Average unit prices for steel bars and cement (cont'd)

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.1 Bar Bulat Keluli Lembut BS-4449 (samb.) Mild Steel Round Bars BS-4449 (cont'd)		RM Per Tan Metrik RM Per Metric Ton		
1.1.4 20mm–25mm (3/4"–1")	2021 Dis	2973.36	2567.98	2867.24
	2022 Jan	2973.36	2590.17	2867.24
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
1.1.5 32mm (1 1/4")	2021 Dis	3134.41	2863.24	2718.66
	2022 Jan	3134.41	2899.03	2718.66
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
1.2 Mycon 60 High Tensile Deformed Bars				
1.2.1 10mm (3/8")	2021 Dis	3178.73	2772.29	3544.43
	2022 Jan	3178.73	2807.19	3544.43
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 1: Harga unit purata bagi bar keluli dan simen (samb.)

Table 1: Average unit prices for steel bars and cement (cont'd)

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.2 Mycon 60 (Samb.)			RM Per Tan Metrik	
<i>High Tensile Deformed Bars (Cont'd)</i>			<i>RM Per Metric Ton</i>	
1.2.2 12mm (1/2")	2021 Dis	3176.15	2816.30	3544.43
	2022 Jan	3180.47	2879.00	3544.43
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
1.2.3 16mm–25mm (5/8"–1")	2021 Dis	3071.24	2644.75	3188.31
	2022 Jan	3071.24	2689.89	3188.31
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
1.2.4 32mm (1 1/4")	2021 Dis	2949.10	2519.77	2754.41
	2022 Jan	2949.10	2572.20	2754.41
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 1: Harga unit purata bagi bar keluli dan simen (samb.)

Table 1: Average unit prices for steel bars and cement (cont'd)

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.3 Simen <i>Cement</i>		RM Sekarung 50 Kg <i>RM Per 50 Kg Bag</i>		
1.3.1 Portland Biasa	2021 Dis	17.53	18.46	18.60
BS 12	2022 Jan	17.54	18.73	18.69
<i>Ordinary</i>	Feb			
<i>Portland BS 12</i>	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 2: Harga unit purata bagi minyak bahan api, bitumen dan diesel

Table 2: Average unit prices for fuel oil, bitumen and diesel

Item	Tempoh Period	Semenanjung Malaysia Peninsular Malaysia
2.1 Minyak Bahan Api <i>Fuel Oil</i>		RM Seliter <i>RM Per Litre</i>
2.1.1 Sederhana <i>Medium</i>	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
2.2 Bitumen Penembusan 60/70 <i>Bitumen 60/70 Penetration</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>
	2021 Dis	2400.00
	2022 Jan	2400.00
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

Nota: Bermula Mei 2017, bitumen penembusan 80/100 telah ditukar kepada 60/70. Harga bitumen penembusan 60/70 adalah berdasarkan harga purata ex-Kuala Lumpur.

Notes: Starting May 2017, the bitumen 80/100 penetration has been converted into 60/70. The price for bitumen 60/70 penetration is based on average ex-Kuala Lumpur.

Jadual 2: Harga unit purata bagi minyak bahan api, bitumen dan diesel (samb.)

Table 2: Average unit prices for fuel oil, bitumen and diesel (cont'd)

Item	Tempoh <i>Period</i>	Semenanjung Malaysia <i>Peninsular Malaysia</i>	
(3) Minyak Gas Automotif <i>Automotive Gas Oil</i>		RM Seliter <i>RM Per Litre</i>	
		Runcit <i>Retail</i>	Sebenar <i>Actual</i>
Diesel	2021 Jan	2.04	n.a.
Diesel	Feb	2.13	n.a.
	Mac	2.15	n.a.
	Apr	2.15	n.a.
	Mei	2.15	n.a.
	Jun	2.15	n.a.
	Jul	2.15	n.a.
	Ogos	2.15	n.a.
	Sept	2.15	n.a.
	Okt	2.15	n.a.
	Nov	2.15	n.a.
	Dis	2.15	n.a.
	2022 Jan	2.15	n.a.
	Feb		
	Mac		
	Apr		
	Mei		
	Jun		
	Jul		
	Ogos		
	Sept		
	Okt		
	Nov		
	Dis		

Nota: Harga diesel adalah ex-Kuala Lumpur.

Notes: The price for diesel is ex-Kuala Lumpur.

Jadual 3: Harga unit purata bagi pasir, batu baur, premix, fabric reinforcement, guardrail dan paip air & paip pembetungan

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.1 Pasir <i>Sand</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.1.1 Pasir Sungai <i>River Sand</i>	2021 Dis	48.08 ^f	55.37	33.59
	2022 Jan	47.81	57.09	34.14
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.1.2 Pasir Lombong <i>Mining Sand</i>	2021 Dis	46.14	53.14	n.a.
	2022 Jan	47.14	55.99	n.a.
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.2 Batu Baur <i>Aggregates</i>				
3.2.1 Granite 10mm (3/8")	2021 Dis	33.38	29.44	31.91
	2022 Jan	33.25	29.68	31.91
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Nota: Harga bagi pasir, batu baur dan premix adalah termasuk kos pengangkutan bagi jarak 30km dari outlet.

Notes: The prices for sand, aggregates and premix are inclusive of transportation charge for 30km from the outlets.

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.2 Batu Baur (Samb.) <i>Aggregates (Cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.2.2 Granite 20mm (3/4")	2021 Dis	45.14	33.16 ^f	31.95
	2022 Jan	45.99	33.76	31.95
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.2.3 Granite 40mm (1 1/2")	2021 Dis	32.33	29.69	29.72
	2022 Jan	32.33	33.83	29.72
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.2.4 Crushed Aggregate (Crusher Run)	2021 Dis	21.05	24.19	21.59
	2022 Jan	20.15	30.52	23.31
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.3.a Premix Asphaltic Concrete		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.a.1 AC 10 (Wearing Course)	2021 Dis	168.50	165.45	258.00
	2022 Jan	168.50	181.46	258.00
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.3.a.2 AC 14 (Wearing Course)	2021 Dis	170.50	178.33	204.33
	2022 Jan	170.50	179.97	202.67
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.3.a.3 AC 28 (Binder Course)	2021 Dis	167.75	171.45	201.00
	2022 Jan	167.75	175.97	199.33
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetulan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.3.a Premix Asphaltic Concrete (samb.) <i>(cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.a.4 ACW 20 (Wearing Course)	2021 Dis	174.75	178.00	219.00
	2022 Jan	174.75	179.70	216.50
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.3.b Premix Bituminous Macadam		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.b.1 BMR40 (Bound Roadbase)	2021 Dis	165.00	180.00	n.a.
	2022 Jan	165.00	183.89	n.a.
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.3.b.2 BMR28 (Bound Roadbase)	2021 Dis	165.00	166.86	n.a.
	2022 Jan	165.00	169.64	n.a.
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.3.b.3 BML10 (Levelling Course)	2021 Dis	165.00	184.00	173.00
	2022 Jan	165.00	186.35	168.00
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.3.b Premix Bituminous Macadam (samb.) <i>(cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.b.4 BMB28 (Binder Course)	2021 Dis	165.00	174.50	162.00
	2022 Jan	165.00	181.78	162.00
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.3.b.5 BMB20 (Binder Course)	2021 Dis	165.00	181.13	204.00
	2022 Jan	165.00	189.07	202.33
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.3.b.6 BMW14 (Wearing Course)	2021 Dis	165.00	176.89	206.00
	2022 Jan	165.00	179.05	204.33
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetulan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.3.b Premix Bituminous Macadam (samb.) <i>(cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.b.7 BMW20 (Wearing Course)	2021 Dis	165.00	175.22	258.00
	2022 Jan	165.00	177.38	258.00
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement			RM Per Kg <i>RM Per Kg</i>	
3.4.1 A4, MS145	2021 Dis	4.09	3.78 ^r	4.04 ^r
	2022 Jan	4.09	3.78	4.04
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.2 A5, MS145	2021 Dis	3.49	3.68	4.00 ^r
	2022 Jan	3.49	3.55	4.00
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.3 A6, MS145	2021 Dis	3.13	3.39	3.59 ^r
	2022 Jan	3.13	3.66	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.4 A7, MS145	2021 Dis	3.31	3.52	3.59 ^r
	2022 Jan	3.31	3.97	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.5 A8, MS145	2021 Dis	3.31	3.12	3.59 ^r
	2022 Jan	3.31	2.83	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.6 A9, MS145	2021 Dis	3.00	2.86	3.59 ^r
	2022 Jan	3.00	2.53	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>		RM Per Kg <i>RM Per Kg</i>		
3.4.7 A10, MS145	2021 Dis	3.65	2.87	3.59 ^r
	2022 Jan	3.65	2.57	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.8 B5, MS145	2021 Dis	4.06	3.52	3.99 ^r
	2022 Jan	4.06	3.45	3.99
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.9 B6, MS145	2021 Dis	3.65	3.10	3.59 ^r
	2022 Jan	3.65	3.03	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.10 B7, MS145	2021 Dis	3.65	2.85	3.59 ^r
	2022 Jan	3.65	2.81	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.11 B8, MS145	2021 Dis	3.65	3.00	3.59 ^r
	2022 Jan	3.65	2.93	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.12 B9, MS145	2021 Dis	3.65	2.70	3.59 ^r
	2022 Jan	3.65	2.62	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item		Tempoh <i>Period</i>	Kawasan <i>Region</i>		
			Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>		
3.4.13 B10, MS145	2021	Dis	3.64	2.97	3.58 ^r
		2022 Jan	3.64	2.90	3.58
		Feb			
		Mac			
		Apr			
		Mei			
		Jun			
		Jul			
		Ogos			
		Sept			
		Okt			
		Nov			
		Dis			
3.4.14 B12, MS145	2021	Dis	4.03	3.16	3.97 ^r
		2022 Jan	4.03	3.09	3.97
		Feb			
		Mac			
		Apr			
		Mei			
		Jun			
		Jul			
		Ogos			
		Sept			
		Okt			
		Nov			
		Dis			
3.4.15 C5, MS145	2021	Dis	4.06	4.05	3.99 ^r
		2022 Jan	4.06	3.93	3.99
		Feb			
		Mac			
		Apr			
		Mei			
		Jun			
		Jul			
		Ogos			
		Sept			
		Okt			
		Nov			
		Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>		RM Per Kg <i>RM Per Kg</i>		
3.4.16 C6, MS145	2021 Dis	4.05	3.74	3.99 ^r
	2022 Jan	4.05	3.67	3.99
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.17 C7, MS145	2021 Dis	4.05	3.68	3.99 ^r
	2022 Jan	4.05	3.61	3.99
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.18 C8, MS145	2021 Dis	4.04	3.65	3.98 ^r
	2022 Jan	4.04	3.58	3.98
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>		RM Per Kg <i>RM Per Kg</i>		
3.4.19 C9, MS145	2021 Dis	4.05	3.60	3.98 ^r
	2022 Jan	4.05	3.55	3.98
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.20 C10, MS145	2021 Dis	4.05	3.52	3.98 ^r
	2022 Jan	4.05	3.48	3.98
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.21 DA4, MS145	2021 Dis	4.09	3.89	4.02 ^r
	2022 Jan	4.09	3.80	4.02
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item		Tempoh Period	Kawasan Region		
			Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg		
3.4.22 DA5, MS145	2021 Dis 2022 Jan Feb Mac Apr Mei Jun Jul Ogos Sept Okt Nov Dis		4.07	3.82	4.00 ^r
			4.07	3.74	4.00
3.4.23 DA6, MS145	2021 Dis 2022 Jan Feb Mac Apr Mei Jun Jul Ogos Sept Okt Nov Dis		3.65	3.42	3.59 ^r
			3.65	3.35	3.59
3.4.24 DA7, MS145	2021 Dis 2022 Jan Feb Mac Apr Mei Jun Jul Ogos Sept Okt Nov Dis		3.65	3.25	3.59 ^r
			3.65	3.21	3.59

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.25 DA8, MS145	2021 Dis	3.65	3.18	3.59 ^r
	2022 Jan	3.65	3.14	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.26 DA9, MS145	2021 Dis	3.65	3.57	3.59 ^r
	2022 Jan	3.65	3.57	3.59
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.4.27 DA10, MS145	2021 Dis	3.65	3.56	3.57 ^r
	2022 Jan	3.65	3.56	3.57
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.5 Guardrail			RM Per Meter <i>RM Per Metre</i>	
3.5.1 Single Mounted	2021 Dis	168.35	170.00	173.60
3.5.1.i 1.95m Post Spacing	2022 Jan	168.35	170.00	173.60
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.5.1.ii 3.80m Post Spacing	2021 Dis	119.00	120.15	122.70
	2022 Jan	119.00	120.15	122.70
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
Dis				

Nota: Harga guardrail adalah termasuk kos pengangkutan bagi jarak 30km dari outlet.

Notes: The prices for guardrail are inclusive of transportation charges for 30km from the outlets.

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.5 Guardrail (samb.) <i>(cont'd)</i>		RM Per Meter <i>RM Per Metre</i>		
3.5.2 Double Mounted	2021 Dis	257.80	260.30	265.60
3.5.2.i 1.95m Post Spacing	2022 Jan	257.80	260.30	265.60
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			
3.5.2.ii 3.80m Post Spacing	2021 Dis	198.55	200.45	204.60
	2022 Jan	198.55	200.45	204.60
	Feb			
	Mac			
	Apr			
	Mei			
	Jun			
	Jul			
	Ogos			
	Sept			
	Okt			
	Nov			
	Dis			

Nota: Harga guardrail adalah termasuk kos pengangkutan bagi jarak 30km dari outlet.

Notes: The prices for guardrail are inclusive of transportation charges for 30km from the outlets.

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetulan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.a Paip Air <i>Water Pipe</i>		RM Per Meter <i>RM Per Metre</i>
3.6.a.1 Mild Steel Pipe 300mm	2021 Dis	321.00
	2022 Jan	321.00
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.a.2 Stainless Steel Pipe 25mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.a.3 Ductile Iron Pipe 300mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

Nota: Harga bagi paip air dan paip pembetulan adalah harga di kilang.

Notes: The prices for water pipe and sewerage pipe are ex-factory prices.

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.a. Paip Air (samb.) <i>Water Pipe (cont'd)</i>		RM Per Meter <i>RM Per Metre</i>
3.6.a.4 High Density Polyethylene (HDPE) Pipe 3.6.a.4.i. Compression Fitting Using For Jointing 25mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.a.4.ii. Electrofusion Jointing 160mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.a.4.iii. Butt Fussion 160mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetulan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.b Paip Pembetulan (samb.) <i>Sewerage Pipe (cont'd)</i>		RM Per Meter <i>RM Per Metre</i>
3.6.b.1 Mild Steel Pipe 300mm	2021 Dis	346.68
	2022 Jan	346.68
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.2 Ductile Iron Pipe 250mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.3 High Density Polyethylene (HDPE) Pipe	2021 Dis	n.a.
	2022 Jan	n.a.
3.6.b.3.i. Profile Pipe 150mm	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetulan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>
		Semenanjung Malaysia <i>Peninsular Malaysia</i>
3.6.b Paip Pembetulan (samb.) <i>Sewerage Pipe (cont'd)</i>		RM Per Meter <i>RM Per Metre</i>
3.6.b.3 High Density Polyethylene (HDPE) Pipe 3.6.b.3.ii Solid Pipe 250mm	2021 Dis	108.02
	2022 Jan	108.02
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.4 Vitrified Clay Pipe	2021 Dis	126.37
3.6.b.4.i Standard Pipe 225mm	2022 Jan	126.37
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.4.ii Jacking Pipe 225mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetulan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.b Paip Pembetulan (samb.) <i>Sewerage Pipe (cont'd)</i>		RM Per Meter <i>RM Per Metre</i>
3.6.b.5 Reinforced Concrete Pipe	2021 Dis	248.00
3.6.b.5.i Without Lining	2022 Jan	248.00
900mm	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.5.ii With Lining (High Alumina)	2021 Dis	n.a.
900mm	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.5.iii With Lining (Sacrificial Lining)	2021 Dis	n.a.
900mm	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembetungan (samb.)

Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe (cont'd)

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>
		Semenanjung Malaysia <i>Peninsular Malaysia</i>
3.6.b Paip Pembetungan <i>Sewerage Pipe</i>		RM Per Meter <i>RM Per Metre</i>
3.6.b.6 ABS Pipe	2021 Dis	48.80
3.6.b.6.i Gravity 110mm	2022 Jan	48.80
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	
3.6.b.6.ii Force Main 225mm	2021 Dis	n.a.
	2022 Jan	n.a.
	Feb	
	Mac	
	Apr	
	Mei	
	Jun	
	Jul	
	Ogos	
	Sept	
	Okt	
	Nov	
	Dis	

NOTA TEKNIKAL
TECHNICAL NOTES

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NOTA TEKNIKAL

1. Harga bar keluli, simen dan *fabric reinforcement* yang diterbitkan dalam Siaran Khas 1 ini diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia.
2. Harga yang dilaporkan mengikut 3 kawasan di Semenanjung Malaysia adalah seperti berikut:

Utara	= Perlis, Kedah, Pulau Pinang dan Perak
Tengah	= Wilayah Persekutuan Kuala Lumpur, Melaka, Negeri Sembilan, Selangor dan Johor
Timur	= Pahang, Terengganu dan Kelantan

3. Bermula Mei 2017, bitumen penembusan 80/100 telah ditukar kepada 60/70. Harga bitumen penembusan 60/70 adalah berdasarkan harga purata ex-Kuala Lumpur.
4. Faktor pelarasan bagi kategori dan saiz paip yang tidak diterbitkan dalam Siaran Khas 1 ini adalah seperti di **Lampiran A**.
5. Harga bagi bahan-bahan binaan lain (yang tidak dinyatakan di atas) adalah diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia.
6. Semua harga yang tersebut di atas adalah bagi tujuan pengiraan kadar perubahan harga sahaja dan tidak boleh digunakan untuk mewakili kedudukan harga yang sebenar.

TECHNICAL NOTES

1. The prices for steel bars, cement and *fabric reinforcement* published in this Special Release 1 are obtained from the price collection conducted by Department of Statistics, Malaysia.
2. Prices reported according to 3 regions in Peninsular Malaysia are as follows:

North	= Perlis, Kedah, Pulau Pinang and Perak
Central	= Wilayah Persekutuan Kuala Lumpur, Melaka, Negeri Sembilan, Selangor and Johor
East	= Pahang, Terengganu and Kelantan

3. Starting May 2017, the bitumen 80/100 penetration has been converted into 60/70. The price for bitumen 60/70 penetration is based on average ex-Kuala Lumpur.
4. The adjustment factors for the other categories and sizes not published in this Special Release 1 are shown in **Appendix A**.
5. The prices for other building materials (not stated above) are obtained from the price collection conducted by Department of Statistics, Malaysia.
6. All prices mentioned above are relevant for escalation purposes only and should not be used to represent actual price levels.

SINGKATAN/SIMBOL

n.a	= Tidak diperoleh
r	= Kemaskini

ABBREVIATION/SYMBOLS

n.a	= Not available
r	= Revised

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LAMPIRAN

APPENDIX

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Jadual faktor pelarasan bagi paip air dan paip pembetungan
Adjustment factor table for water pipe and sewerage pipe

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>																																																								
Paip air <i>Water pipe</i> 1. Mild Steel Pipe <table> <tr><td>100 mm Ø</td><td>0.25</td></tr> <tr><td>150 "</td><td>0.36</td></tr> <tr><td>200 "</td><td>0.47</td></tr> <tr><td>250 "</td><td>0.59</td></tr> <tr><td>300 "</td><td>1.00</td></tr> <tr><td>350 "</td><td>1.16</td></tr> <tr><td>400 "</td><td>1.32</td></tr> <tr><td>450 "</td><td>1.48</td></tr> <tr><td>500 "</td><td>1.63</td></tr> <tr><td>600 "</td><td>2.18</td></tr> <tr><td>700 "</td><td>2.80</td></tr> <tr><td>750 "</td><td>2.99</td></tr> <tr><td>800 "</td><td>3.18</td></tr> <tr><td>900 "</td><td>3.56</td></tr> <tr><td>1000 "</td><td>4.25</td></tr> <tr><td>1100 "</td><td>5.53</td></tr> <tr><td>1150 "</td><td>5.83</td></tr> <tr><td>1200 "</td><td>6.40</td></tr> <tr><td>1300 "</td><td>7.60</td></tr> <tr><td>1400 "</td><td>8.16</td></tr> <tr><td>1500 "</td><td>10.32</td></tr> <tr><td>1600 "</td><td>10.98</td></tr> <tr><td>1700 "</td><td>11.64</td></tr> <tr><td>1800 "</td><td>12.30</td></tr> <tr><td>1900 "</td><td>12.96</td></tr> <tr><td>2000 "</td><td>14.74</td></tr> <tr><td>2100 "</td><td>16.01</td></tr> <tr><td>2200 "</td><td>17.33</td></tr> </table>	100 mm Ø	0.25	150 "	0.36	200 "	0.47	250 "	0.59	300 "	1.00	350 "	1.16	400 "	1.32	450 "	1.48	500 "	1.63	600 "	2.18	700 "	2.80	750 "	2.99	800 "	3.18	900 "	3.56	1000 "	4.25	1100 "	5.53	1150 "	5.83	1200 "	6.40	1300 "	7.60	1400 "	8.16	1500 "	10.32	1600 "	10.98	1700 "	11.64	1800 "	12.30	1900 "	12.96	2000 "	14.74	2100 "	16.01	2200 "	17.33	
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2. Stainless Steel Pipe <table> <tr><td>13 mm Ø (1/2")</td><td>0.53</td></tr> <tr><td>20 " (3/4")</td><td>0.69</td></tr> <tr><td>25 " (1")</td><td>1.00</td></tr> <tr><td>32 " (1 1/4")</td><td>1.34</td></tr> <tr><td>38 " (1 1/2")</td><td>1.59</td></tr> <tr><td>50 " (2")</td><td>2.14</td></tr> <tr><td>63 " (2 1/2")</td><td>3.42</td></tr> <tr><td>75 " (3")</td><td>4.66</td></tr> <tr><td>100 " (4")</td><td>6.72</td></tr> </table>	13 mm Ø (1/2")	0.53	20 " (3/4")	0.69	25 " (1")	1.00	32 " (1 1/4")	1.34	38 " (1 1/2")	1.59	50 " (2")	2.14	63 " (2 1/2")	3.42	75 " (3")	4.66	100 " (4")	6.72																																							
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Jadual faktor pelarasan bagi paip air dan paip pembetungan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>																																								
Paip air <i>Water pipe</i> 3. Ductile Iron Pipe <table> <tr><td>100 mm Ø</td><td>0.35</td></tr> <tr><td>150 "</td><td>0.45</td></tr> <tr><td>200 "</td><td>0.60</td></tr> <tr><td>250 "</td><td>0.79</td></tr> <tr><td>300 "</td><td>1.00</td></tr> <tr><td>350 "</td><td>1.25</td></tr> <tr><td>400 "</td><td>1.50</td></tr> <tr><td>450 "</td><td>1.78</td></tr> <tr><td>500 "</td><td>2.05</td></tr> <tr><td>600 "</td><td>2.70</td></tr> <tr><td>700 "</td><td>3.50</td></tr> </table>	100 mm Ø	0.35	150 "	0.45	200 "	0.60	250 "	0.79	300 "	1.00	350 "	1.25	400 "	1.50	450 "	1.78	500 "	2.05	600 "	2.70	700 "	3.50																			
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4. High Density Polyethylene (HDPE) Pipe i. Compression Fitting Using For Jointing <table> <tr><td>20 mm Ø</td><td>0.69</td></tr> <tr><td>25 "</td><td>1.00</td></tr> <tr><td>32 "</td><td>1.63</td></tr> <tr><td>40 "</td><td>2.59</td></tr> <tr><td>50 "</td><td>3.93</td></tr> <tr><td>63 "</td><td>6.18</td></tr> <tr><td>75 "</td><td>8.83</td></tr> <tr><td>90 "</td><td>12.68</td></tr> </table> ii. Electrofusion Jointing <table> <tr><td>110 mm Ø</td><td>0.48</td></tr> <tr><td>125 "</td><td>0.63</td></tr> <tr><td>140 "</td><td>0.80</td></tr> <tr><td>160 "</td><td>1.00</td></tr> <tr><td>180 "</td><td>1.30</td></tr> <tr><td>200 "</td><td>1.54</td></tr> <tr><td>225 "</td><td>1.96</td></tr> <tr><td>250 "</td><td>2.46</td></tr> <tr><td>280 "</td><td>3.27</td></tr> <tr><td>315 "</td><td>3.97</td></tr> <tr><td>355 "</td><td>6.29</td></tr> <tr><td>400 "</td><td>7.80</td></tr> </table>	20 mm Ø	0.69	25 "	1.00	32 "	1.63	40 "	2.59	50 "	3.93	63 "	6.18	75 "	8.83	90 "	12.68	110 mm Ø	0.48	125 "	0.63	140 "	0.80	160 "	1.00	180 "	1.30	200 "	1.54	225 "	1.96	250 "	2.46	280 "	3.27	315 "	3.97	355 "	6.29	400 "	7.80	
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Jadual faktor pelarasan bagi paip air dan paip pembedungan (samb.)

Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>
Paip air <i>Water pipe</i>	
ii. Electrofusion Jointing (samb. / cont'd)	
450 mm Ø "	
500 "	
560 "	
iii. Butt Fussion	
110 mm Ø	0.48
125 "	0.62
140 "	0.76
160 "	1.00
180 "	1.25
200 "	1.56
225 "	1.94
250 "	2.38
280 "	2.97
315 "	3.76
355 "	4.79
400 "	6.06
450 "	7.90
500 "	7.90
560 "	12.61

Jadual faktor pelarasan bagi paip air dan paip pembetulan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>																																																						
Paip pembetulan <i>Sewerage pipe</i> 1. Mild Steel Pipe <table> <tr><td>100 mm Ø</td><td>0.40</td></tr> <tr><td>125 "</td><td>0.50</td></tr> <tr><td>150 "</td><td>0.59</td></tr> <tr><td>200 "</td><td>0.79</td></tr> <tr><td>250 "</td><td>0.99</td></tr> <tr><td>300 "</td><td>1.00</td></tr> <tr><td>350 "</td><td>1.38</td></tr> <tr><td>400 "</td><td>1.58</td></tr> <tr><td>450 "</td><td>1.78</td></tr> <tr><td>500 "</td><td>1.98</td></tr> <tr><td>550 "</td><td>2.20</td></tr> <tr><td>600 "</td><td>2.37</td></tr> <tr><td>650 "</td><td>2.50</td></tr> <tr><td>700 "</td><td>2.77</td></tr> <tr><td>750 "</td><td>2.96</td></tr> <tr><td>800 "</td><td>3.16</td></tr> <tr><td>850 "</td><td>3.40</td></tr> <tr><td>900 "</td><td>3.56</td></tr> <tr><td>950 "</td><td>3.80</td></tr> <tr><td>1000 "</td><td>3.95</td></tr> <tr><td>1200 "</td><td>4.74</td></tr> <tr><td>1400 "</td><td>5.53</td></tr> <tr><td>1600 "</td><td>6.32</td></tr> <tr><td>1800 "</td><td>7.11</td></tr> <tr><td>2000 "</td><td>7.91</td></tr> <tr><td>2100 "</td><td>8.30</td></tr> <tr><td>2200 "</td><td>8.70</td></tr> </table>	100 mm Ø	0.40	125 "	0.50	150 "	0.59	200 "	0.79	250 "	0.99	300 "	1.00	350 "	1.38	400 "	1.58	450 "	1.78	500 "	1.98	550 "	2.20	600 "	2.37	650 "	2.50	700 "	2.77	750 "	2.96	800 "	3.16	850 "	3.40	900 "	3.56	950 "	3.80	1000 "	3.95	1200 "	4.74	1400 "	5.53	1600 "	6.32	1800 "	7.11	2000 "	7.91	2100 "	8.30	2200 "	8.70	
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Jadual faktor pelarasan bagi paip air dan paip pembetungan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>
Paip pembedungan <i>Sewerage pipe</i>	
2. Ductile Iron Pipe (samb. / cont'd)	
600 mm Ø	2.40
700 "	2.80
800 "	3.20
1000 "	3.40
1200 "	3.60
i. HDPE (Profile) Pipe	
100 mm Ø	0.64
125 "	0.80
150 "	1.00
200 "	1.73
250 "	1.28
300 "	4.10
350 "	7.50
400 "	10.55
450 "	12.00
500 "	17.00
550 "	19.31
600 "	19.32
650 "	19.50
700 "	20.25
750 "	21.27
800 "	25.60
850 "	31.07
900 "	35.00
950 "	38.19
1000 "	54.82
1200 "	74.00
1400 "	94.00
1600 "	123.23
1800 "	165.00
2000 "	207.35
2100 "	300.00
2200 "	400.00

Jadual faktor pelarasan bagi paip air dan paip pembetungan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

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Paip pembetungan <i>Sewerage pipe</i> ii. HDPE (Solid) Pipe <table> <tr><td>100 mm Ø</td><td>0.20</td></tr> <tr><td>125 "</td><td>0.25</td></tr> <tr><td>150 "</td><td>0.50</td></tr> <tr><td>200 "</td><td>0.65</td></tr> <tr><td>250 "</td><td>1.00</td></tr> <tr><td>300 "</td><td>1.50</td></tr> <tr><td>350 "</td><td>2.00</td></tr> <tr><td>400 "</td><td>2.69</td></tr> <tr><td>450 "</td><td>3.51</td></tr> <tr><td>500 "</td><td>4.48</td></tr> <tr><td>550 "</td><td>5.50</td></tr> <tr><td>600 "</td><td>6.00</td></tr> <tr><td>650 "</td><td>7.50</td></tr> <tr><td>700 "</td><td>8.50</td></tr> <tr><td>750 "</td><td>10.00</td></tr> <tr><td>800 "</td><td>11.75</td></tr> <tr><td>850 "</td><td>15.00</td></tr> <tr><td>900 "</td><td>16.50</td></tr> <tr><td>950 "</td><td>18.00</td></tr> <tr><td>1000 "</td><td>20.40</td></tr> <tr><td>1200 "</td><td>24.00</td></tr> <tr><td>1400 "</td><td>26.00</td></tr> <tr><td>1600 "</td><td>32.00</td></tr> <tr><td>1800 "</td><td>36.00</td></tr> <tr><td>2000 "</td><td>38.00</td></tr> <tr><td>2100 "</td><td>42.00</td></tr> <tr><td>2200 "</td><td>45.00</td></tr> </table>	100 mm Ø	0.20	125 "	0.25	150 "	0.50	200 "	0.65	250 "	1.00	300 "	1.50	350 "	2.00	400 "	2.69	450 "	3.51	500 "	4.48	550 "	5.50	600 "	6.00	650 "	7.50	700 "	8.50	750 "	10.00	800 "	11.75	850 "	15.00	900 "	16.50	950 "	18.00	1000 "	20.40	1200 "	24.00	1400 "	26.00	1600 "	32.00	1800 "	36.00	2000 "	38.00	2100 "	42.00	2200 "	45.00	
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Jadual faktor pelarasan bagi paip air dan paip pembetungan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>																																																
Paip pembetungan <i>Sewerage pipe</i> 4. Vitrified Clay Pipe i. Vitrified Clay (Standard) Pipe <table> <tr><td>100 mm Ø</td><td>0.40</td></tr> <tr><td>150 "</td><td>0.52</td></tr> <tr><td>200 "</td><td>0.84</td></tr> <tr><td>225 "</td><td>1.00</td></tr> <tr><td>300 "</td><td>2.37</td></tr> <tr><td>375 "</td><td>4.24</td></tr> <tr><td>400 "</td><td>4.95</td></tr> <tr><td>450 "</td><td>5.63</td></tr> <tr><td>500 "</td><td>7.96</td></tr> <tr><td>600 "</td><td>11.78</td></tr> <tr><td>700 "</td><td>14.33</td></tr> <tr><td>800 "</td><td>14.50</td></tr> </table> ii. Vitrified Clay (Jacking) Pipe <table> <tr><td>100 mm Ø</td><td>0.80</td></tr> <tr><td>150 "</td><td>0.85</td></tr> <tr><td>200 "</td><td>0.90</td></tr> <tr><td>225 "</td><td>1.00</td></tr> <tr><td>300 "</td><td>1.60</td></tr> <tr><td>375 "</td><td>1.87</td></tr> <tr><td>400 "</td><td>2.17</td></tr> <tr><td>450 "</td><td>2.60</td></tr> <tr><td>500 "</td><td>3.22</td></tr> <tr><td>600 "</td><td>3.75</td></tr> <tr><td>700 "</td><td>4.15</td></tr> <tr><td>800 "</td><td>4.65</td></tr> </table>	100 mm Ø	0.40	150 "	0.52	200 "	0.84	225 "	1.00	300 "	2.37	375 "	4.24	400 "	4.95	450 "	5.63	500 "	7.96	600 "	11.78	700 "	14.33	800 "	14.50	100 mm Ø	0.80	150 "	0.85	200 "	0.90	225 "	1.00	300 "	1.60	375 "	1.87	400 "	2.17	450 "	2.60	500 "	3.22	600 "	3.75	700 "	4.15	800 "	4.65	
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Jadual faktor pelarasan bagi paip air dan paip pembetulan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>																																																																		
Paip pembetulan <i>Sewerage pipe</i> 5. Reinforced Concrete Pipe (RCP) i. Without Lining <table> <tr><td>375 mm Ø</td><td>0.26</td></tr> <tr><td>450 "</td><td>0.31</td></tr> <tr><td>600 "</td><td>0.47</td></tr> <tr><td>750 "</td><td>0.69</td></tr> <tr><td>900 "</td><td>1.00</td></tr> <tr><td>1050 "</td><td>1.33</td></tr> <tr><td>1200 "</td><td>1.56</td></tr> <tr><td>1350 "</td><td>1.97</td></tr> <tr><td>1500 "</td><td>2.44</td></tr> <tr><td>1650 "</td><td>2.80</td></tr> <tr><td>1800 "</td><td>3.59</td></tr> </table> ii. With Lining (High Alumina) <table> <tr><td>375 mm Ø</td><td>0.26</td></tr> <tr><td>450 "</td><td>0.31</td></tr> <tr><td>600 "</td><td>0.47</td></tr> <tr><td>750 "</td><td>0.69</td></tr> <tr><td>900 "</td><td>1.00</td></tr> <tr><td>1050 "</td><td>1.33</td></tr> <tr><td>1200 "</td><td>1.56</td></tr> <tr><td>1350 "</td><td>1.97</td></tr> <tr><td>1500 "</td><td>2.44</td></tr> <tr><td>1650 "</td><td>2.80</td></tr> <tr><td>1800 "</td><td>3.59</td></tr> </table> iii. With Lining (Sacrificial Lining) <table> <tr><td>375 mm Ø</td><td>0.26</td></tr> <tr><td>450 "</td><td>0.31</td></tr> <tr><td>600 "</td><td>0.47</td></tr> <tr><td>750 "</td><td>0.69</td></tr> <tr><td>900 "</td><td>1.00</td></tr> <tr><td>1050 "</td><td>1.33</td></tr> <tr><td>1200 "</td><td>1.56</td></tr> <tr><td>1350 "</td><td>1.97</td></tr> <tr><td>1500 "</td><td>2.44</td></tr> <tr><td>1650 "</td><td>2.80</td></tr> <tr><td>1800 "</td><td>3.59</td></tr> </table>	375 mm Ø	0.26	450 "	0.31	600 "	0.47	750 "	0.69	900 "	1.00	1050 "	1.33	1200 "	1.56	1350 "	1.97	1500 "	2.44	1650 "	2.80	1800 "	3.59	375 mm Ø	0.26	450 "	0.31	600 "	0.47	750 "	0.69	900 "	1.00	1050 "	1.33	1200 "	1.56	1350 "	1.97	1500 "	2.44	1650 "	2.80	1800 "	3.59	375 mm Ø	0.26	450 "	0.31	600 "	0.47	750 "	0.69	900 "	1.00	1050 "	1.33	1200 "	1.56	1350 "	1.97	1500 "	2.44	1650 "	2.80	1800 "	3.59	
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Jadual faktor pelarasan bagi paip air dan paip pembetulan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>
Paip pembetulan <i>Sewerage pipe</i>	
6. ABS Pipe	
i. Gravity	
90 mm Ø	0.67
110 "	1.00
150 "	2.07
225 "	3.64
315 "	7.10
ii. Force Main	
15 mm Ø	0.01
20 "	0.02
25 "	0.03
32 "	0.04
40 "	0.05
50 "	0.08
65 "	0.15
80 "	0.18
100 "	0.30
150 "	0.61
200 "	1.13
225 "	1.00
250 "	3.73
280 "	1.48
315 "	1.87
355 "	2.37
400 "	3.01
450 "	3.81
500 "	4.71
630 "	7.47

Sasaran Tarikh Pengumuman Siaran Khas 1
(Untuk Kerja-Kerja Kejuruteraan Awam), Semenanjung Malaysia, 2022
Scheduled Release Dates for Special Release 1
(For Civil Engineering Works), Peninsular Malaysia, 2022

Tahun <i>Year</i>	Bulan Rujukan <i>Reference Month</i>	Tahun <i>Year</i>	Tarikh Pengumuman <i>Release Date</i>
2022	Januari <i>January</i>	2022	10 Februari <i>10 February</i>
	Februari <i>February</i>		10 Mac <i>10 March</i>
	Mac <i>March</i>		08 April <i>08 April</i>
	April <i>April</i>		11 Mei <i>11 May</i>
	Mei <i>May</i>		09 Jun <i>09 June</i>
	Jun <i>June</i>		07 Julai <i>07 July</i>
	Julai <i>July</i>		10 Ogos <i>10 August</i>
	Ogos <i>August</i>		08 September <i>08 September</i>
	September <i>September</i>		11 Oktober <i>11 October</i>
	Oktober <i>October</i>		09 November <i>09 November</i>
	November <i>November</i>		08 Disember <i>08 December</i>
	Disember <i>December</i>	2023	09 Januari <i>09 January</i>