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JABATAN PERANGKAAN MALAYSIA

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SIARAN KHAS
Special Release

1

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

JULAI
JULY **2022**

Pemakluman

Jabatan Perangkaan Malaysia (DOSM) sedang menjalankan Survei Pendapatan, Perbelanjaan Isi Rumah dan Kemudahan Asas (HIES/BA) 2022 bermula dari 1 Januari 2022 sehingga 31 Disember 2022 dan Survei Ekonomi Tahunan (AES) 2022 bermula dari 15 April 2022 sehingga 30 September 2022. DOSM amat menghargai kerjasama daripada responden yang terpilih untuk memberikan maklumat kepada DOSM serta menjayakan survei ini. Sila layari www.dosm.gov.my untuk maklumat lanjut.

Penerbitan statistik ekonomi dan sosial iaitu PocketStats yang mengandungi statistik suku tahunan dan tahunan boleh diperoleh dari portal DOSM atau melalui pautan https://bit.ly/PocketStatsS1_2022. Dimaklumkan bahawa Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah "Connecting the World with Data We Can Trust".

Announcement

The Department of Statistics Malaysia (DOSM) is conducting the Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1st January 2022 until 31st December 2022 and the Annual Economic Survey (AES) 2022 from 15th April 2022 until 30th September 2022. DOSM greatly appreciates the cooperation given by selected respondents by sharing their information with DOSM and making the survey a success. Please visit www.dosm.gov.my for more information.

Economic and social statistics publication namely PocketStats which contain quarterly and annual statistics can be obtained from the DOSM portal or via the link https://bit.ly/PocketStatsQ1_2022. 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 <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
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 Jul	3,128.59	2,464.24	3,153.31
	Ogos	3,154.45	2,464.24	3,189.33
	Sept	3,154.45	2,479.22	3,197.08
	Okt	3,202.33	2,503.03	3,197.08
	Nov	3,191.53	2,558.64	3,205.79
	Dis	3,197.01	2,635.11	3,205.79
	2022 Jan	3,242.38 ^r	3,977.29 ^r	3,260.44 ^r
	Feb	3,255.84 ^r	4,010.82 ^r	3,288.11
	Mac	3,269.36	4,044.64 ^r	3,336.83
	Apr	3,322.68	4,078.74	3,410.09
	Mei	3,411.05	4,095.05	3,433.96
	Jun	3,404.19	3,980.20	3,435.55
	Jul	3,316.32	3,742.40	3,440.67
1.1.2 12mm (1/2")	2021 Jul	3,138.36	2,477.69	3,021.99
	Ogos	3,164.39	2,477.69	3,064.33
	Sept	3,164.39	2,507.68	3,072.08
	Okt	3,212.57	2,534.08	3,072.08
	Nov	3,201.73	2,586.52	3,080.79
	Dis	3,207.25	2,642.48	3,080.79
	2022 Jan	3,252.80 ^r	3,929.65 ^r	3,217.50 ^r
	Feb	3,266.32 ^r	4,093.28 ^r	3,288.11
	Mac	3,279.90	4,143.67 ^r	3,336.83
	Apr	3,333.23	4,219.04	3,401.84
	Mei	3,422.08	4,261.20	3,419.08
	Jun	3,422.08	3,930.60	3,419.08
	Jul	3,321.96	3,875.57	3,444.85
1.1.3 16mm (5/8")	2021 Jul	3,136.33	2,463.39	2,966.09
	Ogos	3,162.37	2,463.39	2,971.68
	Sept	3,162.37	2,490.50	2,989.05
	Okt	3,210.55	2,526.75	2,989.05
	Nov	3,220.52	2,583.88	2,995.82
	Dis	3,226.04	2,660.63	2,995.82
	2022 Jan	3,234.97 ^r	3,906.55 ^r	3,143.68 ^r
	Feb	3,243.92	4,095.34 ^r	3,220.32
	Mac	3,321.06	4,197.76 ^r	3,299.22
	Apr	3,375.74	4,268.68	3,404.30
	Mei	3,466.83	4,311.80	3,428.88
	Jun	3,466.83	4,098.33	3,428.88
	Jul	3,370.23	3,729.48	3,415.71

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 <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
1.1 Bar Bulat Keluli Lembut BS-4449 (samb.) <i>Mild Steel Round Bars BS-4449 (cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
1.1.4 20mm–25mm (3/4"–1")	2021 Jul	2,888.23	2,406.88	2,863.81
	Ogos	2,914.54	2,406.88	2,867.24
	Sept	2,914.54 ^r	2,435.06	2,867.24
	Okt	2,963.51	2,466.65	2,867.24
	Nov	2,957.34	2,513.04	2,867.24
	Dis	2,973.36	2,567.98	2,867.24
	2022 Jan	3,008.47 ^r	3,786.27 ^r	2,897.63 ^r
	Feb	3,043.99 ^r	3,918.37 ^r	2,903.75
	Mac	3,145.71	3,997.69 ^r	2,908.91
	Apr	3,186.87	4,041.56	2,914.08
	Mei	3,123.93 ^r	4,073.89	2,927.69
	Jun	3,186.87	4,073.89	2,927.69
	Jul	3,154.81	3,707.23	2,914.08
1.1.5 32mm (1 1/4")	2021 Jul	3,046.91	2,578.81	2,718.66
	Ogos	3,134.41	2,578.81	2,718.66
	Sept	3,134.41 ^r	2,621.70	2,718.66
	Okt	3,134.41	2,676.06	2,718.66
	Nov	3,134.41	2,749.13	2,718.66
	Dis	3,134.41	2,863.24	2,718.66
	2022 Jan	3,198.22 ^r	3,799.66 ^r	2,808.50 ^r
	Feb	3,211.14	3,918.62 ^r	2,811.88 ^r
	Mac	3,311.14	3,992.14 ^r	2,815.27 ^r
	Apr	3,354.02	4,016.46	2,818.66
	Mei	3,354.02	4,016.46	2,818.66
	Jun	3,354.02	4,016.46	2,818.66
	Jul	3,307.74	4,016.46	2,818.66
1.2 Mycon 60 <i>High Tensile Deformed Bars</i>				
1.2.1 10mm (3/8")	2021 Jul	3,086.56	2,592.16	3,506.11
	Ogos	3,130.38	2,592.16	3,516.14
	Sept	3,130.38	2,626.32 ^r	3,544.43
	Okt	3,179.18	2,657.62	3,544.43
	Nov	3,180.70	2,716.99	3,544.43
	Dis	3,178.73	2,772.29	3,544.43
	2022 Jan	3,190.84 ^r	3,986.42 ^r	3,546.21 ^r
	Feb	3,195.92	4,078.92 ^r	3,546.66
	Mac	3,229.41	4,194.75 ^r	3,584.06
	Apr	3,285.17	4,319.49	3,744.52
	Mei	3,370.37	4,365.30	3,818.40 ^r
	Jun	3,366.76	4,319.49	3,821.89
	Jul	3,274.61	4,192.10	3,697.75

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 <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
1.2 Mycon 60 (Samb.)		RM Per Tan Metrik		
High Tensile Deformed Bars (Cont'd)		RM Per Metric Ton		
1.2.2 12mm (1/2")	2021 Jul	3,078.16	2,594.08	3,502.80
	Ogos	3,122.26	2,594.08	3,516.14
	Sept	3,122.26	2,628.25 ^r	3,519.43
	Okt	3,171.38	2,659.57	3,519.43
	Nov	3,177.96	2,722.58	3,544.43
	Dis	3,176.15	2,816.30	3,544.43
	2022 Jan	3,180.47	4,002.98 ^r	3,550.35 ^r
	Feb	3,197.70	4,108.07 ^r	3,553.32
	Mac	3,237.44	4,224.82 ^r	3,590.86
	Apr	3,293.26	4,344.47	3,741.12
	Mei	3,350.54	4,389.15	3,818.40
	Jun	3,350.54	4,340.47	3,821.89
	Jul	3,254.29	4,205.91	3,694.19
1.2.3 16mm–25mm (5/8"–1")	2021 Jul	2,960.40	2,440.75	3,156.68
	Ogos	3,010.86	2,440.75	3,180.05
	Sept	3,023.07 ^r	2,460.81 ^r	3,188.31
	Okt	3,077.20	2,492.54	3,188.31
	Nov	3,065.14	2,561.88	3,188.31
	Dis	3,071.24	2,644.75	3,188.31
	2022 Jan	3,117.45 ^r	3,794.77 ^r	3,212.22 ^r
	Feb	3,130.98	3,908.08 ^r	3,218.22
	Mac	3,162.34	4,043.69 ^r	3,281.99
	Apr	3,233.69	4,152.45	3,373.76
	Mei	3,287.14	4,195.09	3,413.89
	Jun	3,285.89	4,152.45	3,413.89
	Jul	3,127.87	4,011.30	3,345.51
1.2.4 32mm (1 1/4")	2021 Jul	2,800.84	2,412.78	2,754.41
	Ogos	2,842.58	2,412.78	2,754.41
	Sept	2,842.58 ^r	2,430.90 ^r	2,754.41
	Okt	2,906.89	2,446.76	2,754.41
	Nov	2,896.30	2,450.23	2,754.41
	Dis	2,949.10	2,519.77	2,754.41
	2022 Jan	2,988.02 ^r	3,487.30 ^r	2,754.41
	Feb	3,027.46	3,600.15 ^r	2,754.41
	Mac	3,078.37 ^r	3,646.55 ^r	2,754.41
	Apr	3,130.14	3,706.15	2,754.41
	Mei	3,161.97	3,743.82	2,620.68
	Jun	3,130.14	3,706.15	2,754.41
	Jul	3,015.21	3,672.80	2,754.41

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 <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
1.3 Simen <i>Cement</i>		RM Sekarung 50 Kg <i>RM Per 50 Kg Bag</i>		
1.3.1 Portland Biasa	2021 Jul	16.51	17.90	17.53
BS 12	Ogos	16.69	17.90	17.79
<i>Ordinary</i>	Sept	17.06 ^r	17.96	17.79 ^r
<i>Portland BS 12</i>	Okt	17.17	17.99	17.97
	Nov	17.36	18.41	18.38
	Dis	17.53	18.46	18.60
	2022 Jan	17.54	18.73 ^r	18.69
	Feb	17.56	18.73	18.69
	Mac	17.56	18.77	18.72
	Apr	17.97	18.77	19.28
	Mei	18.02	18.79	19.61
	Jun	18.50	19.00	19.75
	Jul	17.72	18.62	19.28

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 Bitumen Penembusan 60/70 <i>Bitumen 60/70 Penetration</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>
	2021 Jul	2,200.00
	Ogos	2,200.00
	Sept	2,100.00
	Okt	2,250.00
	Nov	2,400.00
	Dis	2,400.00
	2022 Jan	2,400.00
	Feb	2,600.00
	Mac	2,600.00
	Apr	2,950.00
	Mei	2,900.00 ^r
	Jun	3,030.00
	Jul	3,030.00

Sumber: SHELL

Sources: SHELL

Item	Tempoh Period	Semenanjung Malaysia Peninsular Malaysia
2.2 Minyak Gas Automotif <i>Automotive Gas Oil</i>		RM Seliter <i>RM Per Litre</i> Runcit <i>Retail</i>
Diesel	2021 Jul	2.15
<i>Diesel</i>	Ogos	2.15
	Sept	2.15
	Okt	2.15
	Nov	2.15
	Dis	2.15
	2022 Jan	2.15
	Feb	2.15
	Mac	2.15
	Apr	2.15
	Mei	2.15
	Jun	2.15
	Jul	2.15

**Sumber: Kementerian Kewangan Malaysia (MOF) dan Kementerian Perdagangan Dalam Negeri dan Hal Ehwal Pengguna
Pengguna Malaysia (KPDNHEP)**

Sources: Ministry of Finance (MOF) and Ministry of Domestic Trade and Consumer Affairs (KPDNHEP)

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 Jul	46.36	51.63	34.55
	Ogos	47.36	51.31	34.55
	Sept	47.91	51.31 ^f	34.55
	Okt	47.91	54.40	34.55
	Nov	47.92	56.01	34.55
	Dis	48.08 ^f	55.37	33.59
	2022 Jan	47.81	57.30 ^f	34.14
	Feb	47.93	57.65	34.14
	Mac	48.64	57.99 ^f	34.35
	Apr	48.77	59.28 ^f	34.61
	Mei	49.03	59.76	34.99
	Jun	49.01 ^f	60.10	35.37
	Jul	49.59	59.65	35.37
3.1.2 Pasir Lombong <i>Mining Sand</i>	2021 Jul	43.64	53.77	n.a.
	Ogos	43.64	53.59	n.a.
	Sept	43.64	53.59	n.a.
	Okt	44.64	53.59	n.a.
	Nov	46.14	53.46	n.a.
	Dis	46.14	53.14	n.a.
	2022 Jan	47.14	55.99	n.a.
	Feb	47.14	55.31	n.a.
	Mac	47.14	56.07	n.a.
	Apr	47.14	56.54	n.a.
	Mei	47.50	57.14	n.a.
	Jun	47.50	57.52	n.a.
	Jul	47.50	56.91	n.a.
3.2 Batu Baur <i>Aggregates</i>				
3.2.1 Granite 10mm (3/8")	2021 Jul	32.31	29.95	31.38
	Ogos	33.31	29.97	31.97
	Sept	33.38	29.97	31.97
	Okt	33.38	30.96	31.97
	Nov	33.38	31.29	31.97
	Dis	33.38	29.44	31.91
	2022 Jan	33.25	29.68	31.91
	Feb	32.00 ^f	29.92	31.91
	Mac	32.00	30.17 ^f	32.16
	Apr	31.67 ^f	30.41	32.41
	Mei	31.67	30.47	32.41
	Jun	31.78 ^f	30.52	32.41
	Jul	32.11	29.61	32.47

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 Jul	39.46	32.83	31.79
	Ogos	44.19	33.03	31.79
	Sept	42.09	33.03 ^f	31.79
	Okt	43.45	33.17	31.79
	Nov	44.64	34.32	31.79
	Dis	45.14	33.16 ^f	31.95
	2022 Jan	45.99	33.76	31.95
	Feb	45.99	33.86	31.95
	Mac	47.07	33.34 ^f	32.09
	Apr	47.47	33.16 ^f	32.09
	Mei	48.52	33.20	32.09
	Jun	48.67	33.23 ^f	32.09
	Jul	48.81	33.24	32.09
3.2.3 Granite 40mm (1 1/2")	2021 Jul	28.13	29.72	29.12
	Ogos	32.33	29.72	29.12
	Sept	32.33	29.72	29.72
	Okt	32.33	29.72	29.72
	Nov	32.33	29.72	29.72
	Dis	32.33	29.69	29.72
	2022 Jan	32.33	32.95 ^f	29.72
	Feb	32.33	33.36 ^f	29.72
	Mac	32.33	33.86 ^f	30.12
	Apr	32.33	34.06	30.12
	Mei	32.33	34.08	30.12
	Jun	32.33	34.09 ^f	30.12
	Jul	32.33	31.10	30.12
3.2.4 Crushed Aggregate (Crusher Run)	2021 Jul	19.55	23.09	18.95
	Ogos	20.77	23.34	20.61
	Sept	20.77	23.34	20.61
	Okt	20.77	24.54	20.61
	Nov	20.86	24.99	20.61
	Dis	21.05	25.06 ^f	21.59
	2022 Jan	21.37 ^f	25.13 ^f	23.31
	Feb	21.70 ^f	25.19 ^f	23.31
	Mac	22.04 ^f	25.26 ^f	23.31
	Apr	24.62	25.33	23.31
	Mei	24.63	25.34	23.31
	Jun	24.63	25.34	23.31
	Jul	24.10	25.20	23.20

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	Jul	166.33	160.50	258.00
		Ogos	166.33	160.50	258.00
		Sept	166.33	160.50	258.00
		Okt	166.33	165.00	258.00
		Nov	168.67	165.00	258.00
		Dis	168.50	165.45	258.00
	2022	Jan	168.50	181.46	258.00
		Feb	168.50	186.65	258.00
		Mac	174.67 ^r	190.81	258.00
		Apr	174.67	200.05	258.00
		Mei	174.67	208.14	258.00
		Jun	185.67	208.22	288.00
		Jul	201.67	194.30	288.00
3.3.a.2 AC 14 (Wearing Course)	2021	Jul	163.60	175.45	202.67
		Ogos	163.60	175.45	202.67
		Sept	165.60	175.45	202.67
		Okt	165.60	182.00	202.67
		Nov	170.40	183.50	206.00
		Dis	170.50	178.33	204.33
	2022	Jan	170.50	179.97	202.67
		Feb	170.50	184.29	204.33
		Mac	170.50	187.35	206.00
		Apr	173.40	193.62	206.00
		Mei	183.40	200.36	206.00
		Jun	190.00	201.26	231.00
		Jul	199.60	189.67	254.33
3.3.a.3 AC 28 (Binder Course)	2021	Jul	159.80	168.60	199.33
		Ogos	159.80	168.60	199.33
		Sept	161.80	168.60	199.33
		Okt	161.80	172.60	199.33
		Nov	167.40	172.60	202.67
		Dis	167.75	171.45	201.00
	2022	Jan	167.75	173.15 ^r	199.33
		Feb	167.75	176.34	201.00
		Mac	167.75	180.86	202.67
		Apr	170.80	187.61	202.67
		Mei	180.20	194.05	202.67
		Jun	187.60	191.85 ^r	227.67
		Jul	205.60	184.27	251.00

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 (samb.) <i>(cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.a.4 ACW 20 (Wearing Course)	2021 Jul	168.20 ^r	175.80	216.50
	Ogos	168.20	175.80	216.50
	Sept	170.20	175.80	216.50
	Okt	170.20	182.00	216.50
	Nov	173.60	183.67	221.50
	Dis	174.75	178.00	219.00
	2022 Jan	174.75	179.70	216.50
	Feb	174.75	182.97	219.00
	Mac	174.75	184.77	221.50
	Apr	177.60	191.43	221.50
	Mei	185.20	198.32	221.50
	Jun	192.20	199.31	259.00
	Jul	209.80	189.00	266.50

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 Jul	165.00	191.25	n.a.
	Ogos	165.00	195.00	n.a.
	Sept	165.00	195.00	n.a.
	Okt	165.00	220.00	n.a.
	Nov	165.00	220.00	n.a.
	Dis	165.00	180.00	n.a.
	2022 Jan	165.00	183.89	n.a.
	Feb	165.00	183.89	n.a.
	Mac	165.00	183.89	n.a.
	Apr	165.00	183.89	n.a.
	Mei	165.00	198.39	n.a.
	Jun	165.00	198.56	n.a.
	Jul	165.00	169.40	n.a.
3.3.b.2 BMR28 (Bound Roadbase)	2021 Jul	165.00	150.50	n.a.
	Ogos	165.00	144.60	n.a.
	Sept	165.00	144.60	n.a.
	Okt	165.00	174.50	n.a.
	Nov	165.00	174.50	n.a.
	Dis	165.00	166.86	n.a.
	2022 Jan	165.00	169.64	n.a.
	Feb	165.00	175.16	n.a.
	Mac	165.00	177.87 ^r	n.a.
	Apr	165.00	181.59	n.a.
	Mei	165.00	189.57	n.a.
	Jun	165.00	182.11 ^r	n.a.
	Jul	165.00	166.71	n.a.
3.3.b.3 BML10 (Levelling Course)	2021 Jul	165.00	178.00	168.00
	Ogos	165.00	177.60	168.00
	Sept	165.00	177.60	168.00
	Okt	165.00	197.00	168.00
	Nov	165.00	197.00	178.00
	Dis	165.00	184.00	173.00
	2022 Jan	165.00	186.35	168.00
	Feb	165.00	192.02	173.00
	Mac	165.00	198.02	178.00
	Apr	165.00	205.31	178.00
	Mei	165.00	211.85	178.00
	Jun	165.00	213.40 ^r	223.00
	Jul	165.00	194.71	238.00

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 Jul	165.00	170.14	162.00
	Ogos	165.00	168.50	162.00
	Sept	165.00	168.50	162.00
	Okt	165.00	175.17	162.00
	Nov	165.00	175.17	162.00
	Dis	165.00	174.50	167.00 ^r
	2022 Jan	165.00	181.78	162.00
	Feb	165.00	188.31	167.00
	Mac	165.00	191.02 ^r	172.00
	Apr	165.00	202.16	172.00
	Mei	165.00	211.28	172.00
	Jun	165.00	203.54 ^r	217.00
	Jul	165.00	188.43	232.00
3.3.b.5 BMB20 (Binder Course)	2021 Jul	165.00	177.00	199.33
	Ogos	165.00	176.50	199.33
	Sept	165.00	176.50	199.33
	Okt	165.00	180.67	199.33
	Nov	165.00	183.17	202.67
	Dis	165.00	181.13	204.00
	2022 Jan	165.00	189.07	202.33
	Feb	165.00	194.31	204.00
	Mac	165.00	203.86	205.67
	Apr	165.00	206.88	209.00
	Mei	165.00	211.28	209.00
	Jun	165.00	211.40 ^r	234.00
	Jul	165.00	189.14	239.00
3.3.b.6 BMW14 (Wearing Course)	2021 Jul	165.00	172.13	201.00
	Ogos	165.00	171.00	201.00
	Sept	165.00	171.00	201.00
	Okt	165.00	182.83	201.00
	Nov	165.00	187.40	204.33
	Dis	165.00	176.89	206.00
	2022 Jan	165.00	179.05	204.33
	Feb	165.00	184.02	206.00
	Mac	165.00	191.88	207.67
	Apr	165.00	196.13	211.00
	Mei	165.00	202.33	211.00
	Jun	165.00	202.42	236.00
	Jul	165.00	184.56	241.00

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.7 BMW20 (Wearing Course)	2021 Jul	165.00	172.25	258.00
	Ogos	165.00	171.14	258.00
	Sept	165.00	171.14	258.00
	Okt	165.00	181.33	258.00
	Nov	165.00	185.60	258.00
	Dis	165.00	175.22	258.00
	2022 Jan	165.00	177.38	258.00
	Feb	165.00	182.13	258.00
	Mac	165.00	189.59	258.00
	Apr	165.00	195.13	258.00
	Mei	165.00	201.33	258.00
	Jun	165.00	201.42	288.00
	Jul	165.00	183.56	288.00

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 Jul	3.64	3.64	4.05
	Ogos	3.64	3.64	4.05
	Sept	3.64	3.64	4.05
	Okt	3.64	3.64	4.05
	Nov	4.09	3.64	4.05
	Dis	4.09	3.78 ^f	4.04 ^f
	2022 Jan	4.09	3.78	4.04
	Feb	4.09	3.78	4.17 ^f
	Mac	4.09	3.78	4.17
	Apr	4.32 ^f	3.78	3.95 ^f
	Mei	4.32	3.78	3.95
	Jun	4.32	3.78	3.96
	Jul	4.32	3.78	3.97
3.4.2 A5, MS145	2021 Jul	3.27	3.68	4.01
	Ogos	3.27	3.68	4.01
	Sept	3.27	3.68	4.01
	Okt	3.27	3.68	4.01
	Nov	3.49	3.68	4.01
	Dis	3.49	3.68	4.00 ^f
	2022 Jan	3.49	3.55	4.00
	Feb	3.49	3.55	4.13 ^f
	Mac	3.49	3.56	4.13
	Apr	3.61 ^f	3.56	3.91 ^f
	Mei	3.61	3.55	3.91
	Jun	3.61	3.55	3.93
	Jul	3.61	3.55	3.93
3.4.3 A6, MS145	2021 Jul	2.93	3.39	3.60
	Ogos	2.93	3.39	3.60
	Sept	2.93	3.39	3.60
	Okt	2.93	3.39	3.60
	Nov	3.13	3.39	3.60
	Dis	3.13	3.39	3.59 ^f
	2022 Jan	3.13	3.32 ^f	3.59
	Feb	3.13	3.32	3.71 ^f
	Mac	3.13	3.32	3.71
	Apr	3.23 ^f	3.32	3.51 ^f
	Mei	3.23	3.32	3.51
	Jun	3.23	3.32	3.52
	Jul	3.23	3.32	3.53

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 Jul	3.11	3.52	3.60
	Ogos	3.11	3.52	3.60
	Sept	3.11	3.52	3.60
	Okt	3.11	3.52	3.60
	Nov	3.31	3.52	3.60
	Dis	3.31	3.52	3.59 ^r
	2022 Jan	3.31	3.44 ^r	3.59
	Feb	3.31	3.44	3.71 ^r
	Mac	3.31	3.44	3.71
	Apr	3.42 ^r	3.44	3.51 ^r
	Mei	3.42	3.44	3.51
	Jun	3.42	3.44	3.52
	Jul	3.42	3.44	3.53
3.4.5 A8, MS145	2021 Jul	3.10	3.12	3.60
	Ogos	3.10	3.12	3.60
	Sept	3.10	3.12	3.60
	Okt	3.10	3.12	3.60
	Nov	3.31	3.12	3.60
	Dis	3.31	3.12	3.59 ^r
	2022 Jan	3.31	3.03 ^r	3.59
	Feb	3.31	3.03	3.71 ^r
	Mac	3.31	3.03	3.71
	Apr	3.41 ^r	3.03	3.51 ^r
	Mei	3.41	3.03	3.51
	Jun	3.41	3.03	3.52
	Jul	3.41	3.03	3.53
3.4.6 A9, MS145	2021 Jul	2.79	2.86	3.60
	Ogos	2.79	2.86	3.60
	Sept	2.79	2.86	3.60
	Okt	2.79	2.86	3.60
	Nov	3.00	2.86	3.60
	Dis	3.00	2.86	3.59 ^r
	2022 Jan	3.00	2.79 ^r	3.59
	Feb	3.00	2.79	3.71 ^r
	Mac	3.00	2.79	3.71
	Apr	3.10 ^r	2.79	3.51 ^r
	Mei	3.10	2.79	3.51
	Jun	3.10	2.79	3.52
	Jul	3.10	2.79	3.53

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 Jul	3.24	2.87	3.60
	Ogos	3.24	2.87	3.60
	Sept	3.24	2.87	3.60
	Okt	3.24	2.87	3.60
	Nov	3.65	2.87	3.60
	Dis	3.65	2.87	3.59 ^r
	2022 Jan	3.65	2.80 ^r	3.59
	Feb	3.65	2.80	3.71 ^r
	Mac	3.65	2.80	3.71
	Apr	3.85 ^r	2.80	3.51 ^r
	Mei	3.85	2.80	3.51
	Jun	3.85	2.80	3.52
	Jul	3.85	2.80	3.53
3.4.8 B5, MS145	2021 Jul	3.60	3.52	4.00
	Ogos	3.57	3.52	4.00
	Sept	3.57	3.52	4.00
	Okt	3.57	3.52	4.00
	Nov	4.06	3.52	4.00
	Dis	4.06	3.52	3.99 ^r
	2022 Jan	4.06	3.45	3.99
	Feb	4.06	3.45	4.12 ^r
	Mac	4.06	3.45	4.12
	Apr	4.35 ^r	3.45	3.90 ^r
	Mei	4.35	3.45	3.90
	Jun	4.35	3.45	3.91
	Jul	4.35	3.45	3.92
3.4.9 B6, MS145	2021 Jul	3.24	3.10	3.60
	Ogos	3.24	3.10	3.60
	Sept	3.24	3.10	3.60
	Okt	3.24	3.10	3.60
	Nov	3.65	3.10	3.60
	Dis	3.65	3.10	3.59 ^r
	2022 Jan	3.65	3.03	3.59
	Feb	3.65	3.03	3.71 ^r
	Mac	3.65	3.03	3.71
	Apr	3.92 ^r	3.03	3.51 ^r
	Mei	3.92	3.03	3.51
	Jun	3.92	3.03	3.52
	Jul	3.92	3.03	3.53

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 Jul	3.24	2.85	3.60
	Ogos	3.24	2.85	3.60
	Sept	3.24	2.85	3.60
	Okt	3.24	2.85	3.60
	Nov	3.65	2.85	3.60
	Dis	3.65	2.85	3.59 ^r
	2022 Jan	3.65	2.81	3.59
	Feb	3.65	2.81	3.71 ^r
	Mac	3.65	2.81	3.71
	Apr	3.85 ^r	2.81	3.51 ^r
	Mei	3.85	2.81	3.51
	Jun	3.85	2.81	3.52
	Jul	3.85	2.81	3.53
3.4.11 B8, MS145	2021 Jul	3.25	3.00	3.60
	Ogos	3.25	3.00	3.60
	Sept	3.25	3.00	3.60
	Okt	3.25	3.00	3.60
	Nov	3.65	3.00	3.60
	Dis	3.65	3.00	3.59 ^r
	2022 Jan	3.65	2.93	3.59
	Feb	3.65	2.93	3.71 ^r
	Mac	3.65	2.93	3.71
	Apr	3.85 ^r	2.93	3.51 ^r
	Mei	3.85	2.93	3.51
	Jun	3.85	2.93	3.52
	Jul	3.85	2.93	3.53
3.4.12 B9, MS145	2021 Jul	3.24	2.70	3.60
	Ogos	3.24	2.70	3.60
	Sept	3.24	2.70	3.60
	Okt	3.24	2.70	3.60
	Nov	3.65	2.70	3.60
	Dis	3.65	2.70	3.59 ^r
	2022 Jan	3.65	2.62	3.59
	Feb	3.65	2.62	3.71 ^r
	Mac	3.65	2.62	3.71
	Apr	3.85 ^r	2.62	3.51 ^r
	Mei	3.85	2.62	3.51
	Jun	3.85	2.62	3.52
	Jul	3.85	2.62	3.53

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	Jul	3.24	2.97	3.59
		Ogos	3.24	2.97	3.59
		Sept	3.24	2.97	3.59
		Okt	3.24	2.97	3.59
		Nov	3.64	2.97	3.59
	2022	Dis	3.64	2.97	3.58 ^r
		Jan	3.64	2.90	3.58
		Feb	3.64	2.90	3.70 ^r
		Mac	3.64	2.90	3.70
		Apr	3.84 ^r	2.90	3.50 ^r
		Mei	3.84	2.90	3.50
		Jun	3.84	2.90	3.51
		Jul	3.84	2.90	3.52
3.4.14 B12, MS145	2021	Jul	3.58	3.16	3.98
		Ogos	3.58	3.16	3.98
		Sept	3.58	3.16	3.98
		Okt	3.58	3.16	3.98
		Nov	4.03	3.16	3.98
	2022	Dis	4.03	3.16	3.97 ^r
		Jan	4.03	3.09	3.97
		Feb	4.03	3.09	4.10 ^r
		Mac	4.03	3.09	4.10
		Apr	4.26 ^r	3.09	3.88 ^r
		Mei	4.26	3.09	3.88
		Jun	4.26	3.09	3.89
		Jul	4.26	3.09	3.90
3.4.15 C5, MS145	2021	Jul	3.61	4.04	4.00
		Ogos	3.61	4.04	4.00
		Sept	3.61	4.04	4.00
		Okt	3.61	4.04	4.00
		Nov	4.06	4.04	4.00
	2022	Dis	4.06	4.05	3.99 ^r
		Jan	4.06	3.93	3.99
		Feb	4.06	3.93	4.12 ^r
		Mac	4.06	3.93	4.12
		Apr	4.28 ^r	3.93	3.90 ^r
		Mei	4.28	3.93	3.90
		Jun	4.28	3.93	3.92
		Jul	4.28	3.93	3.93

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 Jul	3.61	3.74	4.00
	Ogos	3.61	3.74	4.00
	Sept	3.61	3.74	4.00
	Okt	3.61	3.74	4.00
	Nov	4.05	3.74	4.00
	Dis	4.05	3.74	3.99 ^f
	2022 Jan	4.05	3.67	3.99
	Feb	4.05	3.67	4.12 ^f
	Mac	4.05	3.67	4.12
	Apr	4.28 ^f	3.67	3.90 ^f
	Mei	4.28	3.67	3.90
	Jun	4.28	3.67	3.91
	Jul	4.28	3.67	3.92
3.4.17 C7, MS145	2021 Jul	3.60	3.68	4.00
	Ogos	3.60	3.68	4.00
	Sept	3.60	3.68	4.00
	Okt	3.60	3.68	4.00
	Nov	4.05	3.68	4.00
	Dis	4.05	3.68	3.99 ^f
	2022 Jan	4.05	3.61	3.99
	Feb	4.05	3.61	4.12 ^f
	Mac	4.05	3.61	4.12
	Apr	4.28 ^f	3.61	3.90 ^f
	Mei	4.28	3.61	3.90
	Jun	4.28	3.61	3.91
	Jul	4.28	3.61	3.92
3.4.18 C8, MS145	2021 Jul	3.59	3.65	3.99
	Ogos	3.59	3.65	3.99
	Sept	3.59	3.65	3.99
	Okt	3.59	3.65	3.99
	Nov	4.04	3.65	3.99
	Dis	4.04	3.65	3.98 ^f
	2022 Jan	4.04	3.58	3.98
	Feb	4.04	3.58	4.11 ^f
	Mac	4.04	3.58	4.11
	Apr	4.27 ^f	3.58	3.89 ^f
	Mei	4.27	3.58	3.89
	Jun	4.27	3.58	3.90
	Jul	4.27	3.58	3.91

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 Jul	3.60	3.60	3.99
	Ogos	3.60	3.60	3.99
	Sept	3.60	3.60	3.99
	Okt	3.60	3.60	3.99
	Nov	4.05	3.60	3.99
	Dis	4.05	3.60	3.98 ^r
	2022 Jan	4.05	3.55	3.98
	Feb	4.05	3.55	4.11 ^r
	Mac	4.05	3.55	4.11
	Apr	4.27 ^r	3.55	3.89 ^r
	Mei	4.27	3.55	3.89
	Jun	4.27	3.55	3.91
	Jul	4.27	3.55	3.91
3.4.20 C10, MS145	2021 Jul	3.60	3.52	4.00
	Ogos	3.60	3.52	4.00
	Sept	3.60	3.52	4.00
	Okt	3.60	3.52	4.00
	Nov	4.05	3.52	4.00
	Dis	4.05	3.52	3.98 ^r
	2022 Jan	4.05	3.48	3.98
	Feb	4.05	3.48	4.12 ^r
	Mac	4.05	3.48	4.12
	Apr	4.28 ^r	3.48	3.89 ^r
	Mei	4.28	3.48	3.89
	Jun	4.28	3.48	3.91
	Jul	4.28	3.48	3.92
3.4.21 DA4, MS145	2021 Jul	3.64	3.89	4.04
	Ogos	3.64	3.89	4.04
	Sept	3.64	3.89	4.04
	Okt	3.64	3.89	4.04
	Nov	4.09	3.89	4.04
	Dis	4.09	3.89	4.02 ^r
	2022 Jan	4.09	3.80	4.02
	Feb	4.09	3.80	4.16 ^r
	Mac	4.09	3.80	4.16
	Apr	4.32 ^r	3.80	3.93 ^r
	Mei	4.32	3.80	3.93
	Jun	4.32	3.80	3.95
	Jul	4.32	3.80	3.96

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>		
3.4.22 DA5, MS145	2021 Jul	3.62	3.82	4.01
	Ogos	3.62	3.82	4.01
	Sept	3.62	3.82	4.01
	Okt	3.62	3.82	4.01
	Nov	4.07	3.82	4.01
	Dis	4.07	3.82	4.00 ^r
	2022 Jan	4.07	3.74	4.00
	Feb	4.07	3.74	4.13 ^r
	Mac	4.07	3.74	4.13
	Apr	4.29 ^r	3.74	3.91 ^r
	Mei	4.29	3.74	3.91
	Jun	4.29	3.74	3.93
	Jul	4.29	3.74	3.93
3.4.23 DA6, MS145	2021 Jul	3.24	3.42	3.60
	Ogos	3.24	3.42	3.60
	Sept	3.24	3.42	3.60
	Okt	3.24	3.42	3.60
	Nov	3.65	3.42	3.60
	Dis	3.65	3.42	3.59 ^r
	2022 Jan	3.65	3.35	3.59
	Feb	3.65	3.35	3.71 ^r
	Mac	3.65	3.35	3.71
	Apr	3.85 ^r	3.35	3.51 ^r
	Mei	3.85	3.35	3.51
	Jun	3.85	3.35	3.52
	Jul	3.85	3.35	3.53
3.4.24 DA7, MS145	2021 Jul	3.24	3.25	3.60
	Ogos	3.24	3.25	3.60
	Sept	3.24	3.25	3.60
	Okt	3.24	3.25	3.60
	Nov	3.65	3.25	3.60
	Dis	3.65	3.25	3.59 ^r
	2022 Jan	3.65	3.21	3.59
	Feb	3.65	3.21	3.71 ^r
	Mac	3.65	3.21	3.71
	Apr	3.85 ^r	3.21	3.51 ^r
	Mei	3.85	3.21	3.51
	Jun	3.85	3.21	3.52
	Jul	3.85	3.21	3.53

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	Jul	3.24	3.18	3.60
		Ogos	3.24	3.18	3.60
		Sept	3.24	3.18	3.60
		Okt	3.24	3.18	3.60
		Nov	3.65	3.18	3.60
		Dis	3.65	3.18	3.59 ^f
	2022	Jan	3.65	3.14	3.59
		Feb	3.65	3.14	3.71 ^f
		Mac	3.65	3.14	3.71
		Apr	3.85 ^f	3.14	3.51 ^f
		Mei	3.85	3.14	3.51
		Jun	3.85	3.14	3.52
		Jul	3.85	3.14	3.53
3.4.26 DA9, MS145	2021	Jul	3.24	3.57	3.60
		Ogos	3.24	3.57	3.60
		Sept	3.24	3.57	3.60
		Okt	3.24	3.57	3.60
		Nov	3.65	3.57	3.60
		Dis	3.65	3.57	3.59 ^f
	2022	Jan	3.65	3.57	3.59
		Feb	3.65	3.57	3.71 ^f
		Mac	3.65	3.57	3.71
		Apr	3.85 ^f	3.57	3.51 ^f
		Mei	3.85	3.57	3.51
		Jun	3.85	3.57	3.52
		Jul	3.85	3.57	3.53
3.4.27 DA10, MS145	2021	Jul	3.24	3.56	3.58
		Ogos	3.24	3.56	3.58
		Sept	3.24	3.56	3.58
		Okt	3.24	3.56	3.58
		Nov	3.65	3.56	3.58
		Dis	3.65	3.56	3.57 ^f
	2022	Jan	3.65	3.56	3.57
		Feb	3.65	3.56	3.69 ^f
		Mac	3.65	3.56	3.69
		Apr	3.85 ^f	3.56	3.49 ^f
		Mei	3.85	3.56	3.49
		Jun	3.85	3.56	3.50
		Jul	3.85	3.56	3.51

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 Jul	168.35	170.00	173.60
3.5.1.i 1.95m Post Spacing	Ogos	168.35	170.00	173.60
	Sept	168.35	170.00	173.60
	Okt	168.35	170.00	173.60
	Nov	168.35	170.00	173.60
	Dis	168.35	170.00	173.60
	2022 Jan	168.35	170.00	173.60
	Feb	168.35	170.00	173.60
	Mac	168.35	170.00	173.60
	Apr	168.35	170.00	173.60
	Mei	168.35	170.00	173.60
	Jun	221.45 ^r	223.10 ^r	226.60 ^r
	Jul	252.35	254.15	258.80
3.5.1.ii 3.80m Post Spacing	2021 Jul	119.00	120.15	122.70
	Ogos	119.00	120.15	122.70
	Sept	119.00	120.15	122.70
	Okt	119.00	120.15	122.70
	Nov	119.00	120.15	122.70
	Dis	119.00	120.15	122.70
	2022 Jan	119.00	120.15	122.70
	Feb	119.00	120.15	122.70
	Mac	119.00	120.15	122.70
	Apr	119.00	120.15	122.70
	Mei	119.00	120.15	122.70
	Jun	156.10 ^r	157.30 ^r	159.80 ^r
Jul	177.55	178.75	182.10	

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 Jul	257.80	260.30	265.60
3.5.2.i 1.95m Post Spacing	Ogos	257.80	260.30	265.60
	Sept	257.80	260.30	265.60
	Okt	257.80	260.30	265.60
	Nov	257.80	260.30	265.60
	Dis	257.80	260.30	265.60
	2022 Jan	257.80	260.30	265.60
	Feb	257.80	260.30	265.60
	Mac	257.80	260.30	265.60
	Apr	257.80	260.30	265.60
	Mei	257.80	260.30	265.60
	Jun	337.00 ^r	339.50 ^r	344.80 ^r
	Jul	384.30	387.00	394.10
3.5.2.ii 3.80m Post Spacing	2021 Jul	198.55	200.45	204.60
	Ogos	198.55	200.45	204.60
	Sept	198.55	200.45	204.60
	Okt	198.55	200.45	204.60
	Nov	198.55	200.45	204.60
	Dis	198.55	200.45	204.60
	2022 Jan	198.55	200.45	204.60
	Feb	198.55	200.45	204.60
	Mac	198.55	200.45	204.60
	Apr	198.55	200.45	204.60
	Mei	198.55	200.45	204.60
	Jun	259.35 ^r	261.25 ^r	265.40 ^r
	Jul	294.90	296.95	302.40

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 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 Jul	335.00
	Ogos	325.00
	Sept	322.00
	Okt	326.00
	Nov	321.00
	Dis	321.00
	2022 Jan	318.00 ^r
	Feb	319.00
	Mac	339.00
	Apr	362.00
	Mei	385.00
	Jun	374.00
	Jul	346.00
3.6.a.2 Stainless Steel Pipe 25mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
3.6.a.3 Ductile Iron Pipe 300mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.

Sumber: Persekutuan Industri Besi dan Keluli Malaysia (MISIF)

Sources: Malaysian Iron & Steel Industry Federation (MISIF)

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 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
3.6.a.4.ii. Electrofusion Jointing 160mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
3.6.a.4.iii. Butt Fussion 160mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.

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.) Sewerage Pipe (cont'd)		RM Per Meter RM Per Metre
3.6.b.1 Mild Steel Pipe 300mm	2021 Jul	361.80
	Ogos	351.00
	Sept	347.76
	Okt	352.08
	Nov	346.68
	Dis	346.68
	2022 Jan	343.00 ^r
	Feb	344.00
	Mac	365.65
	Apr	390.46
	Mei	415.27
	Jun	403.40
	Jul	373.20
3.6.b.2 Ductile Iron Pipe 250mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
3.6.b.3 High Density Polyethylene (HDPE) Pipe	2021 Jul	n.a.
	Ogos	n.a.
3.6.b.3.i. Profile Pipe 150mm	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.

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 Jul	108.02
	Ogos	108.02
	Sept	108.02
	Okt	108.02
	Nov	108.02
	Dis	108.02
	2022 Jan	108.02
	Feb	108.02
	Mac	108.02
	Apr	108.02
	Mei	108.02
	Jun	108.02
	Jul	108.02
3.6.b.4 Vitrified Clay Pipe 3.6.b.4.i Standard Pipe 225mm	2021 Jul	126.37
	Ogos	126.37
	Sept	126.37
	Okt	126.37
	Nov	126.37
	Dis	126.37
	2022 Jan	126.37
	Feb	126.37
	Mac	126.37
	Apr	126.37
	Mei	126.37
	Jun	126.37
	Jul	126.37
3.6.b.4.ii Jacking Pipe 225mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.

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.5 Reinforced Concrete Pipe	2021 Jul	248.00
3.6.b.5.i Without Lining	Ogos	248.00
900mm	Sept	248.00
	Okt	248.00
	Nov	248.00
	Dis	248.00
	2022 Jan	248.00
	Feb	248.00
	Mac	248.00
	Apr	248.00
	Mei	248.00
	Jun	248.00
	Jul	248.00
3.6.b.5.ii With Lining (High Alumina)	2021 Jul	n.a.
900mm	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
3.6.b.5.iii With Lining (Sacrificial Lining)	2021 Jul	n.a.
900mm	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.

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 Jul	48.80
3.6.b.6.i Gravity 110mm	Ogos	48.80
	Sept	48.80
	Okt	48.80
	Nov	48.80
	Dis	48.80
	2022 Jan	48.80
	Feb	48.80
	Mac	48.80
	Apr	48.80
	Mei	48.80
	Jun	48.80
	Jul	48.80
3.6.b.6.ii Force Main 225mm	2021 Jul	n.a.
	Ogos	n.a.
	Sept	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2022 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.

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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																			
100 mm Ø	0.35																																								
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500 "	2.05																																								
600 "	2.70																																								
700 "	3.50																																								
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	
20 mm Ø	0.69																																								
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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>	
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 pembetungan <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)

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>
Paip pembetungan <i>Sewerage pipe</i> ii. HDPE (Solid) Pipe 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	

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>