



KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA

SEMENANJUNG MALAYSIA
PENINSULAR MALAYSIA

SIARAN KHAS
Special Release

1

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

APRIL 2023
APRIL

Pemakluman

Jabatan Perangkaan Malaysia (DOSM) sedang menjalankan Banci Ekonomi pada tahun 2023. DOSM amat menghargai kerjasama daripada responden dalam memberikan maklumat kepada DOSM serta menjayakan banci ini. Sila layari www.dosm.gov.my untuk maklumat lanjut.

DOSM telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data. OpenDOSM NextGen ialah platform perkongsian data sumber terbuka dan boleh diakses melalui portal <https://open.dosm.gov.my>.

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 Economic Census in 2023. DOSM greatly appreciates the cooperation of respondents in providing information and ensuring the success of this census. Please visit www.dosm.gov.my for more information.

DOSM has launched OpenDOSM NextGen as a medium that provides a catalogue of data and visualisation to facilitate users in analysing various data. OpenDOSM NextGen is an open source data sharing platform and accessible through <https://open.dosm.gov.my> portal.

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

Tarikh: 9 Mei 2023
Date: 9 May

Diterbitkan dan dicetak oleh / Published and printed by:

Jabatan Perangkaan Malaysia

Department of Statistics, Malaysia

Blok C6, Kompleks C,

Pusat Pentadbiran Kerajaan Persekutuan,

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data request & enquiries)

Harga / Price : RM2.00

Diterbitkan pada Mei 2023 / *Published on May 2023*

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Tiada bahagian daripada terbitan ini boleh diterbitkan semula, disimpan untuk pengeluaran atau ditukar dalam apa-apa bentuk atau alat apa jua pun kecuali setelah mendapat kebenaran daripada Jabatan Perangkaan Malaysia. Pengguna yang mengeluarkan sebarang maklumat dari terbitan ini sama ada yang asal atau diolah semula hendaklah meletakkan kenyataan berikut:

“Sumber: Jabatan Perangkaan Malaysia”.

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ISSN 0127 - 8568

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RINGKASAN PENEMUAN

SUMMARY OF FINDINGS

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PURATA HARGA BAHAN BINAAN MALAYSIA

APRIL 2023



PURATA MALAYSIA

BAR BULAT KELULI LEMBUT	PURATA : RM 3,807.32 MoM : 0.9 YoY : -1.5
MYCON 60 HIGH TENSILE DEFORMED BARS	BESI PURATA : RM 3,721.72 MoM : 0.8 YoY : -2.4
SIMEN ORDINARY PORTLAND	PURATA : RM 3,628.16 MoM : 0.8 YoY : -3.6
PASIR	PURATA : RM 22.50 MoM : 0.4 YoY : 9.5
BATU BAUR	PURATA : RM 42.53 MoM : 0.4 YoY : 16.4
	PURATA : RM 42.48 MoM : -0.1 YoY : 4.9

SEMANJANG MALAYSIA

BAR BULAT KELULI LEMBUT



Purata
RM 3,365.20

MoM : 0.7
YoY : -4.3

MYCON 60 HIGH TENSILE DEFORMED BARS



Purata
RM 3,329.00

MoM : 0.8
YoY : -6.0

SIMEN ORDINARY PORTLAND



Purata
RM 21.33

MoM : 1.0
YoY : 14.3

PASIR



Purata
RM 50.28

MoM : 0.7
YoY : 3.8

BATU BAUR



Purata
RM 31.85

MoM : -0.2
YoY : 3.0

SABAH

BAR BULAT KELULI LEMBUT



Purata
RM 4,222.25

MoM : 2.0
YoY : 0.9

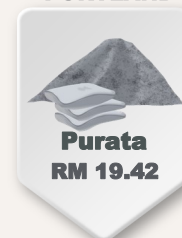
MYCON 60 HIGH TENSILE DEFORMED BARS



Purata
RM 3,891.19

MoM : 1.4
YoY : 0.9

SIMEN ORDINARY PORTLAND



Purata
RM 19.42

MoM : 0.0
YoY : 0.0

PASIR



Purata
RM 58.57

MoM : 0.0
YoY : 39.4

BATU BAUR



Purata
RM 51.10

MoM : 0.0
YoY : 7.3

SARAWAK

BAR BULAT KELULI LEMBUT



Purata
RM 3,884.22

MoM : 0.0
YoY : -1.0

MYCON 60 HIGH TENSILE DEFORMED BARS



Purata
RM 3,686.91

MoM : 0.0
YoY : -5.5

SIMEN ORDINARY PORTLAND



Purata
RM 20.68

MoM : 0.0
YoY : 0.0

PASIR



Purata
RM 27.31

MoM : 0.0
YoY : -1.9

BATU BAUR



Purata
RM 47.12

MoM : 0.0
YoY : 4.5



AVERAGE PRICE OF BUILDING MATERIALS, MALAYSIA

APRIL 2023



MALAYSIA AVERAGE

	MILD STEEL ROUND BARS	AVERAGE : RM 3,807.32 MoM : 0.9 YoY : -1.5
	MYCON 60 HIGH TENSILE DEFORMED BARS	AVERAGE : RM 3,628.16 MoM : 0.8 YoY : -3.6
	STEEL	AVERAGE : RM 3,721.72 MoM : 0.8 YoY : -2.4
	ORDINARY PORTLAND CEMENT	AVERAGE : RM 22.50 MoM : 0.4 YoY : 9.5
	SAND	AVERAGE : RM 42.53 MoM : 0.4 YoY : 16.4
	AGGREGATES	AVERAGE : RM 42.48 MoM : -0.1 YoY : 4.9

MALAYSIA PENINSULAR



MILD STEEL ROUND BARS



MoM : 0.7
YoY : -4.3

MYCON 60 HIGH TENSILE DEFORMED BARS



MoM : 0.8
YoY : -6.0

ORDINARY PORTLAND CEMENT



MoM : 1.0
YoY : 14.3

SAND



MoM : 0.7
YoY : 3.8

AGGREGATES



MoM : -0.2
YoY : 3.0

SABAH

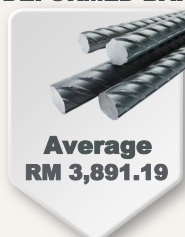


MILD STEEL ROUND BARS



MoM : 2.0
YoY : 0.9

MYCON 60 HIGH TENSILE DEFORMED BARS



MoM : 1.4
YoY : 0.9

ORDINARY PORTLAND CEMENT



MoM : 0.0
YoY : 0.0

SAND



MoM : 0.0
YoY : 39.4

AGGREGATES



MoM : 0.0
YoY : 7.3

SARAWAK



MILD STEEL ROUND BARS



MoM : 0.0
YoY : -1.0

MYCON 60 HIGH TENSILE DEFORMED BARS



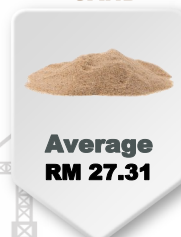
MoM : 0.0
YoY : -5.5

ORDINARY PORTLAND CEMENT



MoM : 0.0
YoY : 0.0

SAND



MoM : 0.0
YoY : -1.9

AGGREGATES



MoM : 0.0
YoY : 4.5

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")	2022			
	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
	Ogos	3,282.84	3,702.80	3,402.90
	Sep	3,173.48	3,647.25	3,355.86
	Okt	3,080.16	3,537.85	3,198.06
	Nov	3,025.84	3,502.45	3,155.37
	Dis	3,030.28	3,456.90	3,155.37
	2023			
	Jan	3,122.76	3,456.90	3,203.09
	Feb	3,376.76 ^f	3,507.84	3,255.33 ^f
	Mac	3,478.02 ^f	3,497.00	3,248.10
	April	3,504.24	3,514.50	3,260.55
1.1.2 12mm (1/2")	2022			
	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
	Ogos	3,298.13	3,829.54	3,402.90
	Sep	3,188.13	3,714.65	3,380.78
	Okt	3,041.41	3,566.15	3,259.21
	Nov	3,037.30	3,530.45	3,210.90
	Dis	3,041.75	3,477.50	3,211.90
	2023			
	Jan	3,133.67	3,474.00	3,260.20
	Feb	3,378.72 ^f	3,508.74	3,303.25 ^f
	Mac	3,478.02 ^f	3,494.70	3,289.12
	Apr	3,504.24	3,519.16	3,299.23
1.1.3 16mm (5/8")	2022			
	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
	Ogos	3,334.83	3,692.20	3,412.81
	Sep	3,234.80	3,581.40	3,391.30
	Okt	3,146.41	3,473.95	3,238.40
	Nov	3,091.80	3,439.20	3,206.20
	Dis	3,100.18	3,356.65	3,173.39
	2023			
	Jan	3,169.23	3,343.22	3,245.49
	Feb	3,368.36 ^f	3,433.48	3,316.51 ^f
	Mac	3,458.85 ^f	3,412.90	3,288.33
	Apr	3,483.21	3,433.38	3,305.33

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")	2022 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
	Ogos	3,139.28	3,670.20	2,914.08
	Sep	3,003.46	3,523.69	2,992.40
	Okt	2,968.22	3,418.20	2,914.08
	Nov	2,944.60	3,384.50	2,884.90
	Dis	2,953.99	3,337.12	2,884.90
	2023 Jan	2,985.05	3,370.49	2,864.70
	Feb	3,176.95 ^r	3,528.90	2,977.93 ^r
	Mac	3,278.80 ^r	3,514.80	2,926.10
	Apr	3,421.54	3,525.34	2,946.17
1.1.5 32mm (1 1/4")	2022 Apr	3,354.02	4,016.46	2,818.66
	Mei	3,354.02	3,992.14 ^r	2,818.66
	Jun	3,354.02	3,638.30 ^r	2,818.66
	Jul	3,307.74	3,382.92 ^r	2,818.66
	Ogos	3,295.22	3,357.25	2,818.66
	Sep	3,125.22	3,291.51	2,818.66
	Okt	2,984.31	3,282.92	2,818.66
	Nov	2,984.31	3,266.50	2,875.50
	Dis	2,919.31	3,225.31	2,818.66
	2023 Jan	2,969.31	3,194.13	2,818.66
	Feb	3,592.03 ^r	3,148.41 ^r	2,987.25 ^r
	Mac	3,704.90	3,148.41	2,987.25
	Apr	3,704.90	3,164.71	2,987.25
1.2 Mycon 60 <i>High Tensile Deformed Bars</i>				
1.2.1 10mm (3/8")	2022 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
	Ogos	3,219.59	4,099.42	3,652.25
	Sep	3,155.20	3,976.40	3,571.89
	Okt	3,011.51	3,777.60	3,447.80
	Nov	2,921.16	3,626.50	3,271.88
	Dis	2,943.57	3,611.90	3,253.13
	2023 Jan	3,048.47	3,575.78	3,296.09
	Feb	3,317.63 ^r	3,593.65	3,439.71 ^r
	Mac	3,401.69 ^r	3,590.05	3,446.30
	Apr	3,412.82	3,590.05	3,492.37

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.) <i>High Tensile Deformed Bars (Cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
1.2.2 12mm (1/2")	2022 Apr	3,293.26	4,344.47	3,741.12
	Mei	3,350.54	4,224.82 ^r	3,818.40
	Jun	3,350.54	3,949.54 ^r	3,821.89
	Jul	3,254.29	3,861.07 ^r	3,694.19
	Ogos	3,225.27	3,783.85	3,578.79
	Sep	3,125.27	3,708.17	3,568.45
	Okt	3,016.15	3,559.85	3,447.80
	Nov	2,955.80	3,131.50	3,249.50
	Dis	2,965.09	3,115.94	3,249.50
	2023 Jan	3,064.41	3,099.23	3,292.45
	Feb	3,290.24 ^r	3,249.80	3,438.24 ^r
	Mac	3,372.78 ^r	3,246.78	3,455.28
	Apr	3,394.98	3,267.79	3,501.54
1.2.3 16mm–25mm (5/8"–1")	2022 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	3,908.08 ^r	3,345.51
	Ogos	3,105.82	3,851.75	3,321.80
	Sep	3,005.82	3,659.20	3,311.80
	Okt	2,890.58	3,512.80	3,307.07
	Nov	2,846.80	3,407.40	3,187.70
	Dis	2,829.91	3,373.33	3,122.23
	2023 Jan	2,985.20	3,363.32	3,195.24
	Feb	3,178.96 ^r	3,413.77	3,176.84 ^r
	Mac	3,269.15 ^r	3,413.77	3,141.90
	Apr	3,295.23	3,432.55	3,169.40
1.2.4 32mm (1 1/4")	2022 Apr	3,130.14	3,706.15	2,754.41
	Mei	3,161.97	3,743.82	2,754.41 ^r
	Jun	3,130.14	3,706.15	2,754.41
	Jul	3,015.21	3,672.80	2,754.41
	Ogos	2,992.95	3,592.62	2,754.41
	Sep	2,791.85	3,520.77	2,809.50
	Okt	2,740.25	3,228.00	2,809.50
	Nov	2,745.25	3,131.20	3,122.23
	Dis	2,734.12	3,099.89	3,228.00
	2023 Jan	2,815.20	3,093.70	3,228.00
	Feb	3,141.35 ^r	3,135.61	2,973.00 ^r
	Mac	3,236.45	3,126.10	2,973.00
	Apr	3,279.03	3,189.00	2,973.00

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	2022 Apr	17.97	18.77	19.28
<i>Ordinary</i>	Mei	18.02	18.79	19.61
<i>Portland</i>	Jun	18.50	19.00	19.75
	Jul	17.72	18.62	19.28
	Ogos	17.95	18.68	19.25
	Sep	17.17	18.60	19.11
	Okt	16.81	18.41	18.97
	Nov	17.39	18.56	19.23
	Dis	17.39	18.87	19.92
	2023 Jan	19.29	19.23	20.67
	Feb	20.23 ^r	19.64 ^r	21.28 ^r
	Mac	21.06 ^r	20.41	21.90
	Apr	21.06	20.96	21.99

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>
	2022 Apr	2,950.00
	Mei	2,900.00 ^r
	Jun	3,030.00
	Jul	3,030.00
	Ogos	3,030.00
	Sep	3,030.00
	Okt	3,030.00
	Nov	3,030.00
	Dis	3,030.00
	2023 Jan	3,030.00
	Feb	3,030.00
	Mac	3,030.00
	Apr	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	2022 Apr	2.15
<i>Diesel</i>	Mei	2.15
	Jun	2.15
	Jul	2.15
	Ogos	2.15
	Sep	2.15
	Okt	2.15
	Nov	2.15
	Dis	2.15
	2023 Jan	2.15
	Feb	2.15
	Mac	2.15
	Apr	2.15

Sumber: Kementerian Kewangan Malaysia dan Kementerian Perdagangan Dalam Negeri dan Kos Sara Hidup

Sources: Ministry of Finance and Ministry of Domestic Trade and Cost of Living

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>	2022 Apr	48.77	59.28 ^r	34.61
	Mei	49.03	59.76	34.99
	Jun	49.01 ^r	60.10	35.37
	Jul	49.59	59.65	35.37
	Ogos	49.08	57.58	36.38 ^r
	Sep	48.62	56.51	36.38
	Okt	48.81	56.05	36.38
	Nov	49.00	55.59	36.38
	Dis	49.00	55.59	36.38
	2023 Jan	51.10 ^r	48.14 ^r	37.19 ^r
	Feb	52.33 ^r	60.14 ^r	37.36 ^r
	Mac	52.43	60.93	37.48
	Apr	52.43	61.07	38.55
3.1.2 Pasir Lombong <i>Mining Sand</i>	2022 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.
	Ogos	47.50	57.15 ^r	n.a.
	Sep	47.50	57.38	n.a.
	Okt	42.08 ^r	57.38	n.a.
	Nov	42.08	57.38	n.a.
	Dis	42.08	57.68	n.a.
	2023 Jan	42.08	60.82 ^r	n.a.
	Feb	42.08	61.19	n.a.
	Mac	42.08	61.51	n.a.
	Apr	42.08	61.87	n.a.
3.2 Batu Baur <i>Aggregates</i>				
3.2.1 Granite 10mm (3/8")	2022 Apr	31.67 ^r	30.41	32.41
	Mei	31.67	30.47	32.41
	Jun	31.78 ^r	30.52	32.41
	Jul	32.11	29.61	32.47
	Ogos	33.78	29.75	32.47
	Sep	34.00	29.94	32.47
	Okt	34.00	29.94	32.47
	Nov	35.89	29.90	32.72
	Dis	35.89	29.97	32.72
	2023 Jan	32.14 ^r	30.75 ^r	32.69 ^r
	Feb	32.43	32.08 ^r	33.94
	Mac	32.43	32.08	33.94
	Apr	32.43	31.58	33.94

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")	2022 Apr	47.47	33.16 ^r	32.09
	Mei	48.52	33.20	32.09
	Jun	48.67	33.23 ^r	32.09
	Jul	48.81	33.24	32.09
	Ogos	48.81	32.99	32.17
	Sep	48.81	32.86	32.17
	Okt	48.81	32.91	32.17
	Nov	48.81	32.82	32.20
	Dis	48.81	33.12	32.20
	2023 Jan	52.32 ^r	33.90 ^r	31.88 ^r
	Feb	52.42	34.18	33.05
	Mac	52.79	34.83	33.05
	Apr	52.79	35.00	33.05
3.2.3 Granite 40mm (1 1/2")	2022 Apr	32.33	34.06	30.12
	Mei	32.33	34.08	30.12
	Jun	32.33	34.09 ^r	30.12
	Jul	32.33	31.10	30.12
	Ogos	32.33	31.10	30.12
	Sep	32.33	31.10	30.12
	Okt	32.33	31.10	30.12
	Nov	36.33	31.10	30.32
	Dis	36.33	31.27	30.32
	2023 Jan	29.50 ^r	31.27	32.91 ^r
	Feb	29.50	32.17	32.91
	Mac	29.50 ^r	33.17	32.91
	Apr	29.50	33.17	32.91
3.2.4 Crushed Aggregate (Crusher Run)	2022 Apr	24.63 ^r	25.33	23.31
	Mei	24.62 ^r	25.33 ^r	23.31
	Jun	24.62 ^r	25.33 ^r	23.31
	Jul	24.10 ^r	25.20 ^r	23.20 ^r
	Ogos	23.88 ^r	25.34 ^r	23.31
	Sep	24.00	25.34 ^r	23.22
	Okt	24.00	25.50	23.32
	Nov	24.10	25.70	23.55
	Dis	24.00	25.38	23.60
	2023 Jan	25.14 ^r	23.34 ^r	25.00 ^r
	Feb	25.14 ^r	24.14 ^r	25.00
	Mac	25.77	24.90	25.00
	Apr	25.82	24.66	25.00

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		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.a.1 AC 10 (Wearing Course)	2022 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
	Ogos	201.67	200.30	288.00
	Sep	201.67	200.30	288.00
	Okt	201.67	200.30	288.00
	Nov	201.67	203.30	310.00
	Dis	201.67	209.90	310.00
	2023 Jan	215.00 ^r	208.90 ^r	310.00
	Feb	215.00	208.90	310.00
	Mac	212.50	213.90	310.00
	Apr	205.00	212.80	310.00
3.3.a.2 AC 14 (Wearing Course)	2022 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
	Ogos	207.60	194.67	254.33
	Sep	207.60	198.83	254.33
	Okt	207.60	198.83	251.00
	Nov	207.60	208.42	258.33
	Dis	207.60	215.50	258.33
	2023 Jan	217.00 ^r	214.67 ^r	256.75 ^r
	Feb	217.00	214.67	256.75
	Mac	215.25	218.83	256.75
	Apr	211.50	216.50	253.00
3.3.a.3 AC 28 (Binder Course)	2022 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
	Ogos	205.60	190.18	251.00
	Sep	205.60	190.18	251.00
	Okt	205.60	190.18	247.67
	Nov	205.60	192.91	255.00
	Dis	205.60	207.36	255.00
	2023 Jan	215.75 ^r	211.10 ^r	253.00 ^r
	Feb	215.75	211.10	253.00
	Mac	214.00	215.10	253.00
	Apr	210.25	210.40	249.25

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)	2022 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
	Ogos	209.80	194.00	266.50
	Sep	209.80	199.45	266.50
	Okt	209.80	199.45	261.50
	Nov	209.80	208.55	272.50
	Dis	209.80	216.00	272.50
	2023 Jan	218.00 ^r	215.09 ^r	265.67 ^r
	Feb	218.00	215.09	265.67
	Mac	214.33	218.73	265.67
	Apr	209.33	213.45	260.67

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)	2022	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.
		Ogos	165.00	169.40	n.a.
		Sep	165.00	168.40	n.a.
		Okt	165.00	168.80	n.a.
		Nov	165.00	180.40	n.a.
		Dis	165.00	180.40	n.a.
	2023	Jan	165.00	178.40 ^r	n.a.
		Feb	165.00	178.40	n.a.
		Mac	165.00	185.40	n.a.
		Apr	165.00	184.40	n.a.
3.3.b.2 BMR28 (Bound Roadbase)	2022	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.
		Ogos	165.00	171.50	n.a.
		Sep	165.00	171.50	n.a.
		Okt	165.00	171.63	n.a.
		Nov	165.00	179.63	n.a.
		Dis	165.00	189.13	n.a.
	2023	Jan	165.00	187.88 ^r	n.a.
		Feb	165.00	187.88	n.a.
		Mac	165.00	199.13 ^r	n.a.
		Apr	165.00	193.50	n.a.
3.3.b.3 BML10 (Levelling Course)	2022	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
		Ogos	165.00	194.71	238.00
		Sep	165.00	194.71	238.00
		Okt	165.00	194.71	228.00
		Nov	165.00	202.57	228.00
		Dis	165.00	212.71	228.00
	2023	Jan	165.00	224.00 ^r	233.00 ^r
		Feb	165.00	224.00	233.00
		Mac	165.00	229.83	233.00
		Apr	165.00	216.50	225.50

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 (samb.) (cont'd)		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.b.4 BMB28 (Binder Course)	2022 Apr	165.00	202.16	172.00
	Mei	165.00	211.28	172.00
	Jun	165.00	203.54 ^f	217.00
	Jul	165.00	188.43	232.00
	Ogos	165.00	188.43	232.00
	Sep	165.00	188.43	232.00
	Okt	165.00	188.43	222.00
	Nov	165.00	196.75	222.00
	Dis	165.00	214.13	222.00
	2023 Jan	165.00	212.88 ^f	230.00 ^f
	Feb	165.00	212.88	230.00
	Mac	165.00	218.50	230.00
	Apr	165.00	206.00	222.50
3.3.b.5 BMB20 (Binder Course)	2022 Apr	165.00	206.88	209.00
	Mei	165.00	211.28	209.00
	Jun	165.00	211.40 ^f	234.00
	Jul	165.00	189.14	239.00
	Ogos	165.00	189.14	250.00
	Sep	165.00	199.14	250.00
	Okt	165.00	199.14	246.67
	Nov	165.00	209.14	255.67
	Dis	165.00	213.43	255.67
	2023 Jan	165.00	212.00 ^f	252.33
	Feb	165.00	212.00	256.67
	Mac	165.00	219.14	256.67
	Apr	165.00	213.43	251.67
3.3.b.6 BMW14 (Wearing Course)	2022 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
	Ogos	165.00	184.56	252.67
	Sep	165.00	189.89	252.67
	Okt	165.00	189.89	249.33
	Nov	165.00	204.89	256.67
	Dis	165.00	216.89	256.67
	2023 Jan	165.00	213.78 ^f	253.33
	Feb	165.00	213.78	257.67
	Mac	165.00	219.33	257.67
	Apr	165.00	213.78	252.67

Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembedungan (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)	2022 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
	Ogos	165.00	183.56	288.00
	Sep	165.00	188.89	288.00
	Okt	165.00	188.89	288.00
	Nov	165.00	204.00	310.00
	Dis	165.00	219.67	310.00
	2023 Jan	165.00	216.56 ^r	279.00 ^r
	Feb	165.00	216.56	279.00
	Mac	165.00	220.44	279.00
	Apr	165.00	211.56	279.00

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	2022	Apr	4.32 ^r	3.78	3.95 ^r
		Mei	4.32	3.78	3.95
		Jun	4.32	3.78	3.96
		Jul	4.32	3.78	3.97
		Ogos	3.64	3.78	3.85
		Sep	3.64	3.78	3.85
		Okt	3.64	3.78	3.85
		Nov	3.64	3.78	3.85
		Dis	3.64	3.78	3.85
	2023	Jan	3.64	3.78	3.85
		Feb	3.64	3.55	3.85
		Mac	3.64	3.55	3.85
		Apr	3.64	3.55	3.85
3.4.2 A5, MS145	2022	Apr	3.61 ^r	3.56	3.91 ^r
		Mei	3.61	3.55	3.91
		Jun	3.61	3.55	3.93
		Jul	3.61	3.55	3.93
		Ogos	3.27	3.55	3.82
		Sep	3.27	3.55	3.82
		Okt	3.27	3.55	3.82
		Nov	3.27	3.55	3.82
		Dis	3.27	3.55	3.82
	2023	Jan	3.27	3.55	3.82
		Feb	3.27	3.47	3.82
		Mac	3.27	3.48	3.82
		Apr	3.27	3.47	3.82
3.4.3 A6, MS145	2022	Apr	3.23 ^r	3.32	3.51 ^r
		Mei	3.23	3.32	3.51
		Jun	3.23	3.32	3.52
		Jul	3.23	3.32	3.53
		Ogos	2.93	3.32	3.42
		Sep	2.93	3.32	3.42
		Okt	2.93	3.32	3.42
		Nov	2.93	3.32	3.42
		Dis	2.93	3.32	3.42
	2023	Jan	2.93	3.32	3.42
		Feb	2.93	3.34	3.42
		Mac	2.93	3.34	3.42
		Apr	2.93	3.34	3.42

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	2022 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
	Ogos	3.11	3.44	3.42
	Sep	3.11	3.44	3.42
	Okt	3.11	3.44	3.42
	Nov	3.11	3.44	3.42
	Dis	3.11	3.44	3.42
	2023 Jan	3.11	3.44	3.42
	Feb	3.11	3.43	3.42
	Mac	3.11	3.43	3.42
	Apr	3.11	3.43	3.42
3.4.5 A8, MS145	2022 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
	Ogos	3.10	3.03	3.43
	Sep	3.10	3.03	3.43
	Okt	3.10	3.03	3.43
	Nov	3.10	3.03	3.43
	Dis	3.10	3.03	3.43
	2023 Jan	3.10	3.03	3.43
	Feb	3.10	3.00	3.43
	Mac	3.10	3.00	3.43
	Apr	3.11	3.00	3.43
3.4.6 A9, MS145	2022 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
	Ogos	2.79	2.79	3.42
	Sep	2.79	2.79	3.42
	Okt	2.79	2.79	3.42
	Nov	2.79	2.79	3.42
	Dis	2.79	2.79	3.42
	2023 Jan	2.79	2.79	3.42
	Feb	2.79	2.84	3.42
	Mac	2.79	2.84	3.42
	Apr	2.79	2.84	3.42

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	2022	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
		Ogos	3.24	2.80	3.42
		Sep	3.24	2.80	3.42
		Okt	3.24	2.80	3.42
		Nov	3.24	2.80	3.42
		Dis	3.24	2.80	3.42
	2023	Jan	3.24	2.80	3.42
		Feb	3.24	2.86	3.42
		Mac	3.24	2.86	3.42
		Apr	3.24	2.86	3.42
3.4.8 B5, MS145	2022	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
		Ogos	3.60	3.45	3.81
		Sep	3.60	3.45	3.81
		Okt	3.60	3.45	3.81
		Nov	3.60	3.45	3.81
		Dis	3.60	3.45	3.81
	2023	Jan	3.60	3.45	3.81
		Feb	3.60	3.48	3.81
		Mac	3.60	3.48	3.81
		Apr	3.60	3.48	3.81
3.4.9 B6, MS145	2022	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
		Ogos	3.24	3.03	3.42
		Sep	3.24	3.03	3.42
		Okt	3.24	3.03	3.42
		Nov	3.24	3.03	3.42
		Dis	3.24	3.03	3.42
	2023	Jan	3.24	3.03	3.42
		Feb	3.24	3.10	3.42
		Mac	3.24	3.10	3.42
		Apr	3.24	3.10	3.42

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	2022	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
		Ogos	3.24	2.81	3.42
		Sep	3.24	2.81	3.42
		Okt	3.24	2.81	3.42
		Nov	3.24	2.81	3.42
		Dis	3.24	2.81	3.42
	2023	Jan	3.24	2.81	3.42
		Feb	3.24	2.95	3.42
		Mac	3.24	2.95	3.42
		Apr	3.24	2.95	3.42
3.4.11 B8, MS145	2022	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
		Ogos	3.24	2.93	3.43
		Sep	3.24	2.93	3.43
		Okt	3.24	2.93	3.43
		Nov	3.24	2.93	3.43
		Dis	3.24	2.93	3.43
	2023	Jan	3.24	2.93	3.43
		Feb	3.24	3.01	3.43
		Mac	3.24	3.01	3.43
		Apr	3.24	3.01	3.43
3.4.12 B9, MS145	2022	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
		Ogos	3.24	2.62	3.43
		Sep	3.24	2.62	3.43
		Okt	3.24	2.62	3.43
		Nov	3.24	2.62	3.43
		Dis	3.24	2.62	3.43
	2023	Jan	3.24	2.62	3.43
		Feb	3.24	2.71	3.43
		Mac	3.24	2.71	3.43
		Apr	3.24	2.71	3.43

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	2022 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
	Ogos	3.24	2.90	3.42
	Sep	3.24	2.90	3.42
	Okt	3.24	2.90	3.42
	Nov	3.24	2.90	3.42
	Dis	3.24	2.90	3.42
	2023 Jan	3.24	2.90	3.42
	Feb	3.24	3.00	3.42
	Mac	3.24	3.00	3.42
	Apr	3.24	3.00	3.42
3.4.14 B12, MS145	2022 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
	Ogos	3.58	3.09	3.79
	Sep	3.58	3.09	3.79
	Okt	3.58	3.09	3.79
	Nov	3.58	3.09	3.79
	Dis	3.58	3.09	3.79
	2023 Jan	3.58	3.09	3.79
	Feb	3.58	3.22	3.79
	Mac	3.58	3.22	3.79
	Apr	3.58	3.22	3.79
3.4.15 C5, MS145	2022 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
	Ogos	3.61	3.93	3.81
	Sep	3.61	3.93	3.81
	Okt	3.61	3.93	3.81
	Nov	3.61	3.93	3.81
	Dis	3.61	3.93	3.81
	2023 Jan	3.61	3.93	3.81
	Feb	3.61	3.96	3.81
	Mac	3.61	3.96	3.81
	Apr	3.61	3.96	3.81

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>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.16 C6, MS145	2022 Apr	4.28 ^r	3.67	3.90 ^r
	Mei	4.28	3.67	3.90
	Jun	4.28	3.67	3.91
	Jul	4.28	3.67	3.92
	Ogos	3.60	3.67	3.81
	Sep	3.60	3.67	3.81
	Okt	3.60	3.67	3.81
	Nov	3.60	3.67	3.81
	Dis	3.60	3.67	3.81
	2023 Jan	3.60	3.67	3.81
	Feb	3.60	3.78	3.81
	Mac	3.60	3.78	3.81
	Apr	3.60	3.78	3.81
3.4.17 C7, MS145	2022 Apr	4.28 ^r	3.61	3.90 ^r
	Mei	4.28	3.61	3.90
	Jun	4.28	3.61	3.91
	Jul	4.28	3.61	3.92
	Ogos	3.60	3.61	3.81
	Sep	3.60	3.61	3.81
	Okt	3.60	3.61	3.81
	Nov	3.60	3.61	3.81
	Dis	3.60	3.61	3.81
	2023 Jan	3.60	3.61	3.81
	Feb	3.60	3.68	3.81
	Mac	3.60	3.68	3.81
	Apr	3.60	3.68	3.81
3.4.18 C8, MS145	2022 Apr	4.27 ^r	3.58	3.89 ^r
	Mei	4.27	3.58	3.89
	Jun	4.27	3.58	3.90
	Jul	4.27	3.58	3.91
	Ogos	3.59	3.58	3.80
	Sep	3.59	3.58	3.80
	Okt	3.59	3.58	3.80
	Nov	3.59	3.58	3.80
	Dis	3.59	3.58	3.80
	2023 Jan	3.59	3.58	3.80
	Feb	3.59	3.64	3.80
	Mac	3.59	3.64	3.80
	Apr	3.59	3.64	3.80

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	2022 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
	Ogos	3.60	3.55	3.80
	Sep	3.60	3.55	3.80
	Okt	3.60	3.55	3.80
	Nov	3.60	3.55	3.80
	Dis	3.60	3.55	3.80
	2023 Jan	3.60	3.55	3.80
	Feb	3.60	3.70	3.80
	Mac	3.60	3.70	3.80
	Apr	3.60	3.70	3.80
3.4.20 C10, MS145	2022 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
	Ogos	3.60	3.48	3.80
	Sep	3.60	3.48	3.80
	Okt	3.60	3.48	3.80
	Nov	3.60	3.48	3.80
	Dis	3.60	3.48	3.80
	2023 Jan	3.60	3.48	3.80
	Feb	3.60	3.64	3.80
	Mac	3.60	3.64	3.80
	Apr	3.60	3.64	3.80
3.4.21 DA4, MS145	2022 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
	Ogos	3.64	3.80	3.84
	Sep	3.64	3.80	3.84
	Okt	3.64	3.80	3.84
	Nov	3.64	3.80	3.84
	Dis	3.64	3.80	3.84
	2023 Jan	3.64	3.80	3.84
	Feb	3.64	3.72	3.84
	Mac	3.64	3.72	3.84
	Apr	3.64	3.72	3.84

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	2022 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
	Ogos	3.61	3.74	3.82
	Sep	3.61	3.74	3.82
	Okt	3.61	3.74	3.82
	Nov	3.61	3.74	3.82
	Dis	3.61	3.74	3.82
	2023 Jan	3.61	3.74	3.82
	Feb	3.61	3.78	3.82
	Mac	3.61	3.78 ^r	3.82
	Apr	3.61	3.78	3.82
3.4.23 DA6, MS145	2022 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
	Ogos	3.24	3.35	3.42
	Sep	3.24	3.35	3.42
	Okt	3.24	3.35	3.42
	Nov	3.24	3.35	3.42
	Dis	3.24	3.35	3.42
	2023 Jan	3.24	3.35	3.42
	Feb	3.24	3.44	3.42
	Mac	3.24	3.44	3.42
	Apr	3.24	3.44	3.42
3.4.24 DA7, MS145	2022 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
	Ogos	3.24	3.21	3.42
	Sep	3.24	3.21	3.42
	Okt	3.24	3.21	3.42
	Nov	3.24	3.21	3.42
	Dis	3.24	3.21	3.42
	2023 Jan	3.24	3.19	3.42
	Feb	3.24	3.35	3.42
	Mac	3.24	3.35	3.42
	Apr	3.24	3.35	3.42

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	2022 Apr	3.85 ^r	3.14	3.51 ^r
	Mei	3.85	3.14	3.51
	Jun	3.85	3.14	3.52
	Jul	3.85	3.14	3.53
	Ogos	3.24	3.14	3.43
	Sep	3.24	3.14	3.43
	Okt	3.24	3.14	3.43
	Nov	3.24	3.14	3.43
	Dis	3.24	3.14	3.43
	2023 Jan	3.24	3.14	3.43
	Feb	3.24	3.28	3.43
	Mac	3.24	3.28	3.43
	Apr	3.24	3.28	3.43
3.4.26 DA9, MS145	2022 Apr	3.85 ^r	3.57	3.51 ^r
	Mei	3.85	3.57	3.51
	Jun	3.85	3.57	3.52
	Jul	3.85	3.57	3.53
	Ogos	3.24	3.57	3.42
	Sep	3.24	3.57	3.42
	Okt	3.24	3.57	3.42
	Nov	3.24	3.57	3.42
	Dis	3.24	3.57	3.42
	2023 Jan	3.24	3.57	3.42
	Feb	3.24	3.82	3.42
	Mac	3.24	3.82	3.42
	Apr	3.24	3.82	3.42
3.4.27 DA10, MS145	2022 Apr	3.85 ^r	3.56	3.49 ^r
	Mei	3.85	3.56	3.49
	Jun	3.85	3.56	3.50
	Jul	3.85	3.56	3.51
	Ogos	3.24	3.56	3.41
	Sep	3.24	3.56	3.41
	Okt	3.24	3.56	3.41
	Nov	3.24	3.56	3.41
	Dis	3.24	3.56	3.41
	2023 Jan	3.24	3.56	3.41
	Feb	3.24	3.86	3.41
	Mac	3.24	3.86	3.41
	Apr	3.24	3.86	3.41

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	2022 Apr	168.35	170.00	173.60
3.5.1.i 1.95m Post Spacing	Mei	168.35	170.00	173.60
	Jun	221.45 ^r	223.10 ^r	226.60 ^r
	Jul	252.35	254.15	258.80
	Ogos	237.45	238.95	244.00
	Sep	237.45	238.95	244.00
	Okt	232.80	234.60	239.30
	Nov	232.80	234.60	239.30
	Dis	232.80	234.60	239.30
	2023 Jan	229.00	228.40	234.30
	Feb	257.00	228.40	234.30
	Mac	257.00	228.40	234.30
	Apr	257.00	228.40	234.30
3.5.1.ii 3.80m Post Spacing	2022 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
	Ogos	167.10	168.35	171.60
	Sep	167.10	168.35	171.60
	Okt	163.80	165.05	168.30
	Nov	163.80	165.05	168.30
	Dis	163.80	165.05	168.30
	2023 Jan	161.05	162.25	165.30
	Feb	161.05	162.25	165.30
	Mac	161.05	162.25	165.30
	Apr	161.05	162.25	165.30

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 <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	2022 Apr	257.80	260.30	265.60
3.5.2.i 1.95m Post Spacing	Mei	257.80	260.30	265.60
	Jun	337.00 ^r	339.50 ^r	344.80 ^r
	Jul	384.30	387.00	394.10
	Ogos	362.30	365.00	372.10
	Sep	362.30	365.00	372.10
	Okt	355.20	357.85	365.00
	Nov	355.20	357.85	365.00
	Dis	355.20	357.85	365.00
	2023 Jan	349.10	358.65	358.90
	Feb	349.10	358.65	358.90
	Mac	349.10	358.65	358.90
	Apr	349.10	358.65	358.90
3.5.2.ii 3.80m Post Spacing	2022 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
	Ogos	277.85	279.60	285.40
	Sep	277.85	279.60	285.40
	Okt	272.35	274.40	279.90
	Nov	272.35	274.40	279.90
	Dis	272.35	274.40	279.90
	2023 Jan	267.70	269.75	275.20
	Feb	267.70	269.75	275.20
	Mac	267.70	269.75	275.20
	Apr	267.70	269.75	275.20

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 <i>Period</i>	Kawasan <i>Region</i>
		Semenanjung Malaysia <i>Peninsular Malaysia</i>
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	2022 Apr	362.00
	Mei	385.00
	Jun	374.00
	Jul	346.00
	Ogos	327.00
	Sep	317.00
	Okt	312.00
	Nov	302.00
	Dis	289.00
	2023 Jan	289.00
	Feb	310.00
	Mac	321.00
	Apr	323.00
3.6.a.2 Stainless Steel Pipe 25mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
3.6.a.3 Ductile Iron Pipe 300mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.

Sumber: Persatuan 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 pembedungan (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.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	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
3.6.a.4.ii. Electrofusion Jointing 160mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
3.6.a.4.iii. Butt Fussion 160mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	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.1 Mild Steel Pipe 300mm	2022 Apr	390.46
	Mei	415.27
	Jun	403.40
	Jul	373.20
	Ogos	352.71
	Sep	341.92
	Okt	336.53
	Nov	325.74
	Dis	311.72
	2023 Jan	311.72
	Feb	334.37
	Mac	346.24
	Apr	348.39
3.6.b.2 Ductile Iron Pipe 250mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
3.6.b.3 High Density Polyethylene (HDPE) Pipe 3.6.b.3.i. Profile Pipe 150mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	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 (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	2022 Apr	108.02
	Mei	108.02
	Jun	108.02
	Jul	108.02
	Ogos	108.02
	Sep	108.02
	Okt	108.02
	Nov	108.02
	Dis	108.02
	2023 Jan	108.02
	Feb	108.02
	Mac	108.02
	Apr	108.02
3.6.b.4 Vitrified Clay Pipe 3.6.b.4.i Standard Pipe 225mm	2022 Apr	126.37
	Mei	126.37
	Jun	126.37
	Jul	126.37
	Ogos	84.00 ^r
	Sep	84.00
	Okt	84.00
	Nov	84.00
	Dis	84.00
	2023 Jan	104.54 ^r
	Feb	104.54 ^r
	Mac	104.54
	Apr	104.54
3.6.b.4.ii Jacking Pipe 225mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	459.00 ^r
	Sep	459.00
	Okt	459.00
	Nov	459.00
	Dis	459.00
	2023 Jan	485.00 ^r
	Feb	485.00 ^r
	Mac	485.00
	Apr	485.00

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 3.6.b.5.i Without Lining 900mm	2022 Apr	248.00
	Mei	248.00
	Jun	248.00
	Jul	248.00
	Ogos	253.50
	Sep	253.50
	Okt	253.50
	Nov	253.50
	Dis	253.50
	2023 Jan	253.50
	Feb	253.50
	Mac	253.50
	Apr	253.50
3.6.b.5.ii With Lining (High Alumina) 900mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
3.6.b.5.iii With Lining (Sacrificial Lining) 900mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mar	n.a.
	Apr	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 <i>Sewerage Pipe</i>		RM Per Meter <i>RM Per Metre</i>
3.6.b.6 ABS Pipe 3.6.b.6.i Gravity 110mm	2022 Apr	48.80
	Mei	48.80
	Jun	48.80
	Jul	48.80
	Ogos	48.80
	Sep	48.80
	Okt	48.80
	Nov	48.80
	Dis	48.80
	2023 Jan	53.80
	Feb	53.80
	Mac	53.80
	Apr	53.80
3.6.b.6.ii Force Main 225mm	2022 Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	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																			
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600 "	2.70																																								
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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 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 125 " 140 " 160 " 180 " 200 " 225 " 250 " 280 " 315 " 355 " 400 " 450 " 500 " 560 "	0.48 0.62 0.76 1.00 1.25 1.56 1.94 2.38 2.97 3.76 4.79 6.06 7.90 7.90 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 <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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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> 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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Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>
Paip pembetungan <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, 2023**

*Scheduled Release Dates for Special Release 1
(For Civil Engineering Works), Peninsular Malaysia, 2023*

Tahun <i>Year</i>	Bulan Rujukan <i>Reference Month</i>	Tahun <i>Year</i>	Tarikh Pengumuman <i>Release Date</i>
2023	Januari <i>January</i>	2023	07 Februari <i>07 February</i>
	Februari <i>February</i>		10 Mac <i>10 March</i>
	Mac <i>March</i>		07 April <i>07 April</i>
	April <i>April</i>		09 Mei <i>09 May</i>
	Mei <i>May</i>		09 Jun <i>09 June</i>
	Jun <i>June</i>		11 Julai <i>11 July</i>
	Julai <i>July</i>		08 Ogos <i>08 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>		08 November <i>08 November</i>
	November <i>November</i>		08 Disember <i>08 December</i>
	Disember <i>December</i>	2024	11 Januari <i>11 January</i>