



KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA

SEMENANJUNG MALAYSIA
PENINSULAR MALAYSIA

SIARAN KHAS
Special Release

1

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

NOVEMBER 2023
NOVEMBER

Pemakluman

Jabatan Perangkaan Malaysia (DOSM) telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data dan boleh diakses melalui portal <https://open.dosm.gov.my>.

DOSM akan menjalankan Banci Pertanian pada tahun 2024. Mohon layari <https://www.myagricensus.gov.my/> untuk maklumat lanjut. Tema adalah "Banci Pertanian, Kunci Kemajuan Pertanian."

Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah "Statistik Nadi Kehidupan".

Announcement

The Department of Statistics Malaysia (DOSM) has launched OpenDOSM NextGen as a medium that provides a catalog of data and visualisations to facilitate users' analysis of various data and can be accessed through <https://open.dosm.gov.my>.

DOSM will conduct the Agricultural Census in 2024. Please visit <https://www.myagricensus.gov.my/> for more information. The theme is "Agriculture Census, Key to Agriculture Development."

The Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20th each year. MyStats Day theme is "Statistics is the Essence of Life".

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

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“Sumber: Jabatan Perangkaan Malaysia”.

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RINGKASAN PENEMUAN

SUMMARY OF FINDINGS

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PURATA HARGA BAHAN BINAAN MALAYSIA

NOVEMBER 2023



PURATA MALAYSIA

	BAR BULAT KELULI LEMBUT	PURATA : RM 3,771.53 MoM : 1.4 YoY : 3.3
	MYCON 60 HIGH TENSILE DEFORMED BARS	BESI PURATA : RM 3,465.49 MoM : 0.2 YoY : -2.2
	SIMEN ORDINARY PORTLAND	PURATA : RM 22.94 MoM : 0.0 YoY : 9.9
	PASIR	PURATA : RM 46.24 MoM : 0.2 YoY : 27.4
	BATU BAUR	PURATA : RM 43.26 MoM : -0.3 YoY : 2.7

SEMIANJUNG MALAYSIA

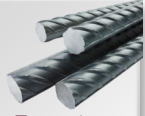
BAR BULAT KELULI LEMBUT



Purata
RM 3,301.11

MoM : 1.3
YoY : 4.4

MYCON 60 HIGH TENSILE DEFORMED BARS



Purata
RM 3,169.48

MoM : 0.8
YoY : 1.4

SIMEN ORDINARY PORTLAND



Purata
RM 22.48

MoM : 0.0
YoY : 22.3

PASIR



Purata
RM 51.33

MoM : 0.8
YoY : 8.3

BATU BAUR



Purata
RM 31.86

MoM : -1.3
YoY : 1.6

SABAH

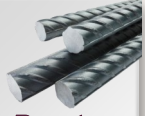
BAR BULAT KELULI LEMBUT



Purata
RM 4,077.80

MoM : 0.7
YoY : -0.1

MYCON 60 HIGH TENSILE DEFORMED BARS



Purata
RM 3,767.21

MoM : -0.6
YoY : -2.4

SIMEN ORDINARY PORTLAND



Purata
RM 19.42

MoM : 0.0
YoY : 0.0

PASIR



Purata
RM 69.76

MoM : 0.0
YoY : 51.7

BATU BAUR



Purata
RM 53.62

MoM : 0.3
YoY : 6.4

SARAWAK

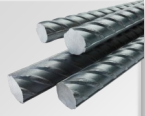
BAR BULAT KELULI LEMBUT



Purata
RM 3,985.36

MoM : 2.3
YoY : 5.8

MYCON 60 HIGH TENSILE DEFORMED BARS



Purata
RM 3,485.67

MoM : 0.6
YoY : -5.6

SIMEN ORDINARY PORTLAND



Purata
RM 20.68

MoM : 0.0
YoY : 0.0

PASIR



Purata
RM 28.95

MoM : 0.0
YoY : 7.8

BATU BAUR



Purata
RM 47.39

MoM : 0.0
YoY : 0.2

AVERAGE PRICE OF BUILDING MATERIALS, MALAYSIA

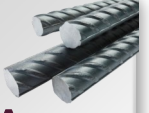
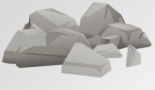
NOVEMBER 2023



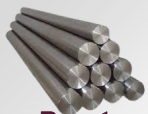
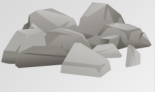
MALAYSIA AVERAGE

	MILD STEEL ROUND BARS	AVERAGE : RM 3,771.53 MoM : 1.4 YoY : 3.3	
	MYCON 60 HIGH TENSILE DEFORMED BARS	STEEL AVERAGE : RM 3,465.49 MoM : 0.2 YoY : -2.2	AVERAGE : RM 3,621.02 MoM : 0.9 YoY : 0.6
	ORDINARY PORTLAND CEMENT		AVERAGE : RM 22.94 MoM : 0.0 YoY : 9.9
	SAND		AVERAGE : RM 46.24 MoM : 0.2 YoY : 27.4
	AGGREGATES		AVERAGE : RM 43.26 MoM : -0.3 YoY : 2.7

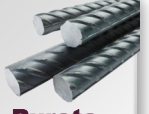
PENINSULAR MALAYSIA

MILD STEEL ROUND BARS	MYCON 60 HIGH TENSILE DEFORMED BARS	ORDINARY PORTLAND CEMENT	SAND	AGGREGATES
 Average RM 3,301.11	 Average RM 3,169.48	 Average RM 22.48	 Average RM 51.33	 Average RM 31.86
MoM : 1.3 YoY : 4.4	MoM : 0.8 YoY : 1.4	MoM : 0.0 YoY : 22.3	MoM : 0.8 YoY : 8.3	MoM : -1.3 YoY : 1.6

SABAH

MILD STEEL ROUND BARS	MYCON 60 HIGH TENSILE DEFORMED BARS	ORDINARY PORTLAND CEMENT	SAND	AGGREGATES
 Purata RM 4,077.80	 Purata RM 3,767.21	 Purata RM 19.42	 Purata RM 69.76	 Purata RM 53.62
MoM : 0.7 YoY : -0.1	MoM : -0.6 YoY : -2.4	MoM : 0.0 YoY : 0.0	MoM : 0.0 YoY : 51.7	MoM : 0.3 YoY : 6.4

SARAWAK

MILD STEEL ROUND BARS	MYCON 60 HIGH TENSILE DEFORMED BARS	ORDINARY PORTLAND CEMENT	SAND	AGGREGATES
 Purata RM 3,985.36	 Purata RM 3,485.67	 Purata RM 20.68	 Purata RM 28.95	 Purata RM 47.39
MoM : 2.3 YoY : 5.8	MoM : 0.6 YoY : -5.6	MoM : 0.0 YoY : 0.0	MoM : 0.0 YoY : 7.8	MoM : 0.0 YoY : 0.2

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 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
	Mei	3,488.28	3,514.50	3,240.14
	Jun	3,419.33	3,468.80	3,219.45
	Jul	3,293.68	3,390.75	3,194.22
	Ogos	3,265.36	3,363.65	3,194.22
	Sep	3,191.59	3,360.30	3,198.17
	Okt	3,271.38	3,353.50	3,198.17
	Nov	3,304.09	3,387.03	3,214.16
1.1.2 12mm (1/2")	2022 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
	Mei	3,488.28	3,519.16	3,243.18
	Jun	3,419.33	3,519.16	3,270.01
	Jul	3,300.00	3,439.99	3,238.89
	Ogos	3,272.18	3,415.90	3,239.89
	Sep	3,194.90	3,412.50	3,216.78
	Okt	3,274.77	3,410.79	3,216.78
	Nov	3,307.52	3,444.90	3,255.38
1.1.3 16mm (5/8")	2022 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
	Mei	3,469.40	3,433.38	3,271.36
	Jun	3,407.95	3,433.38	3,305.51
	Jul	3,294.60	3,330.40	3,216.72
	Ogos	3,263.31	3,313.75	3,216.72
	Sep	3,191.10	3,310.45	3,214.11
	Okt	3,270.88	3,310.45	3,214.11
	Nov	3,303.59	3,346.86	3,265.54

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 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
	Mei	3,421.54	3,525.34	2,946.17
	Jun	3,413.51	3,525.34	2,946.00
	Jul	3,330.22	3,468.93	2,922.93
	Ogos	3,384.04	3,420.35	2,923.93
	Sep	3,271.70	3,420.35	2,899.15
	Okt	3,353.49	3,420.35	2,928.14
	Nov	3,507.75	3,454.55	2,969.14
1.1.5 32mm (1 1/4")	2022 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
	Mei	3,704.90	3,164.71	2,987.25
	Jun	3,704.90	3,164.71	2,987.25
	Jul	3,654.90	3,099.17	2,987.25
	Ogos	3,640.83	3,067.19	2,988.25
	Sep	3,554.90	3,067.19	2,988.25
	Okt	3,590.45	3,097.86	3,018.13
	Nov	3,626.35	3,128.84	3,063.40
1.2 Mycon 60 <i>High Tensile Deformed Bars</i>				
1.2.1 10mm (3/8")	2022 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
	Mei	3,402.33	3,236.20	3,471.34
	Jun	3,352.58	3,177.79	3,372.59
	Jul	3,301.41	3,176.63	3,380.02
	Ogos	3,234.31	3,165.42	3,342.95
	Sep	3,135.24	3,182.36	3,323.95
	Okt	3,197.94	3,164.86	3,323.95
	Nov	3,220.93	3,212.33	3,346.43

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")	2022 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
		Mei	3,383.49	3,236.20	3,480.32
		Jun	3,330.35	3,175.04	3,406.58
		Jul	3,279.92	3,166.08	3,413.98
		Ogos	3,214.30	3,148.85	3,413.98
		Sep	3,094.85	3,171.10	3,376.25
		Okt	3,156.75	3,150.49	3,376.25
		Nov	3,166.01	3,197.75	3,377.32
1.2.3 16mm–25mm (5/8"–1")	2022 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
		Mei	3,280.80	3,418.82	3,090.72
		Jun	3,212.03	3,384.60	3,090.72
		Jul	3,156.53	3,169.42	3,121.04
		Ogos	3,104.10	3,149.90	3,105.60
		Sep	2,963.63	3,148.46	3,065.11
		Okt	3,022.90	3,131.14	3,065.11
		Nov	3,040.57	3,134.27	3,075.81
1.2.4 32mm (1 1/4")	2022 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
		Mei	3,258.69	3,189.00	2,973.00
		Jun	3,127.41	3,189.00	2,973.00
		Jul	3,061.69	3,193.11	2,973.00
		Ogos	3,080.14	3,173.55	2,973.00
		Sep	2,942.86	3,171.67	2,973.00
		Okt	3,001.72	3,146.30	3,032.46
		Nov	3,012.77	3,193.49	3,077.95

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 Nov	17.39	18.56	19.23
<i>Ordinary</i>	Dis	17.39	18.87	19.92
<i>Portland</i>	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
	Mei	22.26	22.01	22.39
	Jun	22.57	22.03	22.49
	Jul	22.56	21.68	22.68
	Ogos	22.56	21.93	22.68
	Sep	22.62	22.17	22.72
	Okt	22.57	22.04	22.81
	Nov	22.57	22.25	22.62

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 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
	Mei	3,030.00
	Jun	3,030.00
	Jul	3,030.00
	Ogos	3,030.00
	Sep	3,030.00
	Okt	3,030.00
	Nov	3,030.00

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 Nov	2.15
<i>Diesel</i>	Dis	2.15
	2023 Jan	2.15
	Feb	2.15
	Mac	2.15
	Apr	2.15
	Mei	2.15
	Jun	2.15
	Jul	2.15
	Ogos	2.15
	Sep	2.15
	Okt	2.15
	Nov	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 Nov	49.00	55.59	36.38
	Dis	49.00	55.59	36.38
	2023 Jan	51.10 ^f	48.14 ^f	37.19 ^f
	Feb	52.33 ^f	60.14 ^f	37.36 ^f
	Mac	52.43	58.47 ^f	37.48
	Apr	52.43	58.60 ^f	38.55
	Mei	52.43	61.64	38.67
	Jun	52.43	61.33 ^f	38.67
	Jul	53.08	61.33	38.67
	Ogos	53.68	61.33	38.67
	Sep	53.68	61.33	38.67
	Okt	53.68	61.53	38.67
	Nov	54.01	61.53	38.67
3.1.2 Pasir Lombong <i>Mining Sand</i>	2022 Nov	42.08	57.38	n.a.
	Dis	42.08	57.68	n.a.
	2023 Jan	42.08	60.82 ^f	n.a.
	Feb	42.08	61.19	n.a.
	Mac	42.08	61.51	n.a.
	Apr	42.08	61.87	n.a.
	Mei	42.08	62.32	n.a.
	Jun	42.08	62.32 ^f	n.a.
	Jul	42.08	62.78	n.a.
	Ogos	42.08	62.78	n.a.
	Sep	42.08	62.04	n.a.
	Okt	43.08	62.17	n.a.
	Nov	44.58	62.17	n.a.
3.2 Batu Baur <i>Aggregates</i>				
3.2.1 Granite 10mm (3/8")	2022 Nov	35.89	29.90	32.72
	Dis	35.89	29.97	32.72
	2023 Jan	32.14 ^f	30.75 ^f	32.69 ^f
	Feb	32.43	32.08 ^f	33.94
	Mac	32.43	32.08	33.94
	Apr	32.43	31.50 ^f	33.94
	Mei	31.63	31.34	33.94
	Jun	31.63	31.18	33.94
	Jul	31.88	31.28	33.94
	Ogos	31.88	31.25	33.94
	Sep	32.00	31.37	33.94
	Okt	32.00	31.39	34.75
	Nov	32.00	31.16	34.50

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 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>
3.2 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 Nov	48.81	32.82	32.20
	Dis	48.81	33.12	32.20
	2023 Jan	52.32 ^f	33.90 ^f	31.88 ^f
	Feb	52.42	34.18	33.05
	Mac	52.79	34.83	33.05
	Apr	52.79	35.00	33.05
	Mei	52.79	35.24	33.05
	Jun	52.79	35.73	33.05
	Jul	53.00	36.04	33.05
	Ogos	53.00	36.04	33.05
	Sep	53.51	36.05	33.05
	Okt	53.30	36.89	33.59
	Nov	53.65	36.94	33.40
3.2.3 Granite 40mm (1 1/2")	2022 Nov	36.33	31.10	30.32
	Dis	36.33	31.27	30.32
	2023 Jan	29.50 ^f	31.27	32.91 ^f
	Feb	29.50	32.17	32.91
	Mac	29.50 ^f	33.17	32.91
	Apr	29.50	33.17	32.91
	Mei	29.50	33.17	32.91
	Jun	29.50	33.27	32.91
	Jul	30.50	33.27	32.91
	Ogos	30.50	33.27	32.91
	Sep	30.50	33.27	32.91
	Okt	30.50	33.27	34.08
	Nov	24.86	33.42	35.93
3.2.4 Crushed Aggregate (Crusher Run)	2022 Nov	24.10	25.70	23.55
	Dis	24.00	25.38	23.60
	2023 Jan	25.14 ^f	23.34 ^f	25.00 ^f
	Feb	25.14 ^f	24.14 ^f	25.00
	Mac	25.77	24.90	25.00
	Apr	25.82	24.66	25.00
	Mei	25.82	24.66	25.00
	Jun	25.82	24.29	25.00
	Jul	25.95	24.53	25.00
	Ogos	25.95	24.53	25.00
	Sep	25.95	24.64 ^f	25.00
	Okt	25.95	24.64	25.00
	Nov	25.95	24.64	25.13

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 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
	Mei	205.00	212.80	310.00
	Jun	205.00	214.05	310.00
	Jul	205.00	211.80	310.00
	Ogos	205.00	211.80	299.00
	Sep	210.00	209.80	288.00
	Okt	211.25	209.80	288.00
	Nov	211.25	209.80	260.25
3.3.a.2 AC 14 (Wearing Course)	2022 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
	Mei	211.50	216.25	253.00
	Jun	206.50	217.38	253.00
	Jul	206.50	215.67	251.75
	Ogos	206.50	215.67	249.00
	Sep	207.67	214.00	246.25
	Okt	208.50	214.00	248.75
	Nov	209.17	214.00	245.08
3.3.a.3 AC 28 (Binder Course)	2022 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
	Mei	210.25	210.40	249.25
	Jun	205.25	211.90	249.25
	Jul	205.25	210.40	248.00
	Ogos	205.25	210.40	245.25
	Sep	204.33	208.40	242.50
	Okt	206.00	205.50	245.00
	Nov	206.00	205.50	241.02

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.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 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
	Mei	209.33	213.45	260.67
	Jun	209.33	215.09	260.67
	Jul	209.33	214.18	259.00
	Ogos	209.33	213.91	255.33
	Sep	209.60	212.09	251.67
	Okt	211.60	212.09	255.00
	Nov	211.60	212.09	256.67

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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.3.b Premix Bituminous Macadam		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.b.1 BMR40 (Bound Roadbase)	2022 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.
	Mei	165.00	184.40	n.a.
	Jun	165.00	184.40	n.a.
	Jul	165.00	186.40	n.a.
	Ogos	165.00	186.40	n.a.
	Sep	200.00	186.40	n.a.
	Okt	200.00	186.40	n.a.
	Nov	200.00	186.40	n.a.
3.3.b.2 BMR28 (Bound Roadbase)	2022 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.
	Mei	165.00	193.50	n.a.
	Jun	165.00	193.50	n.a.
	Jul	165.00	194.75	n.a.
	Ogos	165.00	193.19	n.a.
	Sep	205.00	194.75	n.a.
	Okt	205.00	194.75	n.a.
	Nov	205.00	194.75	n.a.
3.3.b.3 BML10 (Levelling Course)	2022 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
	Mei	165.00	216.50	225.50
	Jun	165.00	216.50	225.50
	Jul	165.00	215.67	223.00
	Ogos	165.00	217.71	223.00
	Sep	212.50	217.71	223.00
	Okt	212.50	217.71	228.00
	Nov	211.67	217.71	230.50

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.) <i>(cont'd)</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
3.3.b.4 BMB28 (Binder Course)	2022 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
	Mei	165.00	206.00	222.50
	Jun	165.00	206.00	222.50
	Jul	165.00	205.38	220.00
	Ogos	165.00	205.38	220.00
	Sep	205.00	205.38	220.00
	Okt	210.00	205.38	225.00
	Nov	206.67	205.38	227.50
3.3.b.5 BMB20 (Binder Course)	2022 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
	Mei	165.00	213.43	251.67
	Jun	165.00	213.43	251.67
	Jul	165.00	212.00	250.00
	Ogos	165.00	212.00	246.33
	Sep	207.50	212.00	242.67
	Okt	207.50	212.00	246.00
	Nov	207.50	212.00	247.67
3.3.b.6 BMW14 (Wearing Course)	2022 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
	Mei	165.00	213.22	252.67
	Jun	165.00	213.22	252.67
	Jul	165.00	213.22	251.00
	Ogos	165.00	212.11	247.33
	Sep	210.00	213.22	243.67
	Okt	210.00	213.22	247.00
	Nov	210.00	214.33	248.67

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 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
	Mei	165.00	211.00	279.00
	Jun	165.00	211.00	279.00
	Jul	165.00	212.67	279.00
	Ogos	165.00	211.56	273.50
	Sep	210.00	212.67	268.00
	Okt	210.00	212.67	268.00
	Nov	210.00	213.78	268.00

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	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
		Mei	3.64	3.55	3.85
		Jun	3.64	3.55	3.85
		Jul	3.64	3.55	3.85
		Ogos	3.64	3.78	3.81
		Sep	3.64	3.78	4.05
		Okt	3.64	3.78	4.05
		Nov	3.64	3.78	4.04
3.4.2 A5, MS145	2022	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
		Mei	3.27	3.47	3.82
		Jun	3.27	3.48	3.82
		Jul	3.27	3.47	3.82
		Ogos	3.27	3.55	3.77
		Sep	3.27	3.55	4.01
		Okt	3.27	3.55	4.01
		Nov	3.27	3.55	4.00
3.4.3 A6, MS145	2022	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
		Mei	2.93	3.34	3.42
		Jun	2.93	3.34	3.42
		Jul	2.93	3.34	3.42
		Ogos	2.93	3.32	3.38
		Sep	2.93	3.32	3.60
		Okt	2.93	3.32	3.60
		Nov	2.93	3.32	3.59

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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.4 A7, MS145	2022 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
	Mei	3.11	3.43	3.42
	Jun	3.11	3.43	3.42
	Jul	3.11	3.43	3.42
	Ogos	3.11	3.44	3.38
	Sep	3.11	3.44	3.60
	Okt	3.11	3.44	3.60
	Nov	3.11	3.44	3.59
3.4.5 A8, MS145	2022 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
	Mei	3.11	3.00	3.43
	Jun	3.11	3.00	3.43
	Jul	3.11	3.00	3.43
	Ogos	3.11	3.03	3.39
	Sep	3.11	3.03	3.60
	Okt	3.11	3.03	3.60
	Nov	3.11	3.03	3.59
3.4.6 A9, MS145	2022 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
	Mei	2.79	2.84	3.42
	Jun	2.79	2.84	3.42
	Jul	2.79	2.84	3.42
	Ogos	2.79	2.79	3.38
	Sep	2.79	2.79	3.60
	Okt	2.79	2.79	3.60
	Nov	2.79	2.79	3.59

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>			
3.4.7 A10, MS145	2022	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
		Mei	3.24	2.86	3.42
		Jun	3.24	2.86	3.42
		Jul	3.24	2.86	3.42
		Ogos	3.24	2.80	3.38
		Sep	3.24	2.80	3.60
		Okt	3.24	2.80	3.60
		Nov	3.24	2.80	3.59
3.4.8 B5, MS145	2022	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
		Mei	3.60	3.48	3.81
		Jun	3.60	3.48	3.81
		Jul	3.60	3.48	3.81
		Ogos	3.60	3.45	3.76
		Sep	3.60	3.45	4.00
		Okt	3.60	3.45	4.00
		Nov	3.60	3.45	3.99
3.4.9 B6, MS145	2022	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
		Mei	3.24	3.10	3.42
		Jun	3.24	3.10	3.42
		Jul	3.24	3.10	3.42
		Ogos	3.24	3.03	3.38
		Sep	3.24	3.03	3.60
		Okt	3.24	3.00	3.60
		Nov	3.24	3.03	3.59

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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.10 B7, MS145	2022 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
	Mei	3.24	2.95	3.42
	Jun	3.24	2.95	3.42
	Jul	3.24	2.95	3.42
	Ogos	3.24	2.81	3.38
	Sep	3.24	2.81	3.60
	Okt	3.24	2.81	3.60
	Nov	3.24	2.81	3.59
3.4.11 B8, MS145	2022 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
	Mei	3.24	3.01	3.43
	Jun	3.24	3.01	3.43
	Jul	3.24	3.01	3.43
	Ogos	3.24	2.93	3.39
	Sep	3.24	2.93	3.60
	Okt	3.24	2.93	3.60
	Nov	3.24	2.93	3.59
3.4.12 B9, MS145	2022 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
	Mei	3.67	2.71	3.43
	Jun	3.67	2.71	3.43
	Jul	3.67	2.71	3.43
	Ogos	3.67	2.62	3.38
	Sep	3.67	2.62	3.60
	Okt	3.67	2.62	3.60
	Nov	3.67	2.62	3.59

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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>			RM Per Kg <i>RM Per Kg</i>	
3.4.13 B10, MS145	2022 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
	Mei	3.24	3.00	3.42
	Jun	3.24	3.00	3.42
	Jul	3.24	3.00	3.42
	Ogos	3.24	2.90	3.38
	Sep	3.24	2.90	3.59
	Okt	3.24	2.90	3.59
	Nov	3.24	2.90	3.58
3.4.14 B12, MS145	2022 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
	Mei	3.58	3.22	3.79
	Jun	3.58	3.22	3.79
	Jul	3.58	3.22	3.79
	Ogos	3.58	3.09	3.74
	Sep	3.58	3.09	3.98
	Okt	3.58	3.09	3.98
	Nov	3.58	3.09	3.97
3.4.15 C5, MS145	2022 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
	Mei	3.61	3.96	3.81
	Jun	3.61	3.96	3.81
	Jul	3.61	3.96	3.81
	Ogos	3.61	3.93	3.76
	Sep	3.61	3.93	4.00
	Okt	3.61	3.93	4.00
	Nov	3.61	3.93	3.99

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 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
	Mei	3.60	3.78	3.81
	Jun	3.60	3.78	3.81
	Jul	3.60	3.78	3.81
	Ogos	3.60	3.67	3.76
	Sep	3.60	3.67	4.00
	Okt	3.60	3.67	4.00
	Nov	3.60	3.67	3.99
3.4.17 C7, MS145	2022 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
	Mei	3.60	3.68	3.81
	Jun	3.60	3.68	3.81
	Jul	3.60	3.68	3.81
	Ogos	3.60	3.61	3.76
	Sep	3.60	3.61	4.00
	Okt	3.60	3.61	4.00
	Nov	3.60	3.61	3.99
3.4.18 C8, MS145	2022 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
	Mei	3.59	3.64	3.80
	Jun	3.59	3.64	3.80
	Jul	3.59	3.64	3.80
	Ogos	3.59	3.58	3.75
	Sep	3.59	3.58	3.99
	Okt	3.59	3.58	3.99
	Nov	3.59	3.58	3.98

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 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
	Mei	3.60	3.70	3.80
	Jun	3.60	3.70	3.80
	Jul	3.60	3.70	3.80
	Ogos	3.60	3.55	3.75
	Sep	3.60	3.55	3.99
	Okt	3.60	3.55	3.99
	Nov	3.60	3.55	3.98
3.4.20 C10, MS145	2022 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
	Mei	3.60	3.64	3.80
	Jun	3.60	3.64	3.80
	Jul	3.60	3.64	3.80
	Ogos	3.60	3.48	3.76
	Sep	3.60	3.48	3.99
	Okt	3.60	3.48	3.99
	Nov	3.60	3.48	3.98
3.4.21 DA4, MS145	2022 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
	Mei	3.64	3.72	3.84
	Jun	3.64	3.72	3.84
	Jul	3.64	3.72	3.84
	Ogos	3.64	3.80	3.79
	Sep	3.64	3.80	4.03
	Okt	3.64	3.80	4.03
	Nov	3.64	3.80	4.02

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 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
	Mei	3.61	4.22	3.82
	Jun	3.61	4.22	3.82
	Jul	3.61	3.78	3.82
	Ogos	3.61	3.74	3.77
	Sep	3.61	3.74	4.01
	Okt	3.61	3.74	4.01
	Nov	3.61	3.74	4.00
3.4.23 DA6, MS145	2022 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
	Mei	3.24	3.44	3.42
	Jun	3.24	3.44	3.42
	Jul	3.24	3.44	3.42
	Ogos	3.24	3.35	3.38
	Sep	3.24	3.35	3.60
	Okt	3.24	3.35	3.60
	Nov	3.24	3.35	3.59
3.4.24 DA7, MS145	2022 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
	Mei	3.24	3.35	3.42
	Jun	3.24	3.35	3.42
	Jul	3.24	3.35	3.42
	Ogos	3.24	3.21	3.38
	Sep	3.24	3.21	3.60
	Okt	3.24	3.21	3.60
	Nov	3.24	3.21	3.59

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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
3.4 Fabric Reinforcement (samb.) <i>(cont'd)</i>		RM Per Kg <i>RM Per Kg</i>		
3.4.25 DA8, MS145	2022 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
	Mei	3.24	3.28	3.43
	Jun	3.24	3.28	3.43
	Jul	3.24	3.28	3.43
	Ogos	3.24	3.14	3.39
	Sep	3.24	3.14	3.60
	Okt	3.24	3.14	3.60
	Nov	3.24	3.14	3.59
3.4.26 DA9, MS145	2022 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
	Mei	3.24	3.82	3.42
	Jun	3.24	3.82	3.42
	Jul	3.24	3.82	3.42
	Ogos	3.24	3.57	3.38
	Sep	3.24	3.57	3.60
	Okt	3.24	3.57	3.60
	Nov	3.24	3.57	3.59
3.4.27 DA10, MS145	2022 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
	Mei	3.24	3.86	3.41
	Jun	3.24	3.86	3.41
	Jul	3.24	3.86	3.41
	Ogos	3.23	3.56	3.37
	Sep	3.23	3.56	3.58
	Okt	3.23	3.56	3.58
	Nov	3.23	3.56	3.57

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 Nov	232.80	234.60	239.30
3.5.1.i 1.95m Post Spacing	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
	Mei	211.10	212.85	217.60
	Jun	211.10	212.85	217.60
	Jul	211.10	212.85	217.60
	Ogos	206.15	207.95	212.60
	Sep	206.15	207.95	212.60
	Okt	206.15	207.95	212.60
	Nov	206.15	207.95	212.60
3.5.1.ii 3.80m Post Spacing	2022 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
	Mei	151.40	152.65	156.00
	Jun	151.40	152.65	156.00
	Jul	151.40	152.65	156.00
	Ogos	146.45	147.70	151.00
	Sep	146.45	147.70	151.00
	Okt	146.45	147.70	151.00
	Nov	146.45	147.70	151.00

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 Nov	355.20	357.85	365.00
3.5.2.i 1.95m Post Spacing	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
	Mei	327.10	329.80	336.90
	Jun	327.10	329.80	336.90
	Jul	327.10	329.80	336.90
	Ogos	317.20	319.90	327.00
	Sep	317.20	319.90	327.00
	Okt	317.20	319.90	327.00
	Nov	317.20	319.90	327.00
3.5.2.ii 3.80m Post Spacing	2022 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
	Mei	255.30	257.30	262.80
	Jun	255.30	257.30	262.80
	Jul	255.30	257.30	262.80
	Ogos	245.40	247.45	252.90
	Sep	245.40	247.45	252.90
	Okt	245.40	247.45	252.90
	Nov	245.40	247.45	252.90

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 Nov	302.00
	Dis	289.00
	2023 Jan	289.00
	Feb	310.00
	Mac	321.00
	Apr	323.00
	Mei	316.00
	Jun	308.00 ^f
	Jul	298.00 ^f
	Ogos	299.00
	Sep	299.00
	Okt	302.00
	Nov	299.00
3.6.a.2 Stainless Steel Pipe 25mm	2022 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
3.6.a.3 Ductile Iron Pipe 300mm	2022 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	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 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
3.6.a.4.ii. Electrofusion Jointing 160mm	2022 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
3.6.a.4.iii. Butt Fussion 160mm	2022 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	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 Nov	325.74
	Dis	311.72
	2023 Jan	311.72
	Feb	334.37
	Mac	346.24
	Apr	348.39
	Mei	340.84
	Jun	332.21 ^f
	Jul	321.43 ^f
	Ogos	322.51
	Sep	322.51
	Okt	325.74
	Nov	322.51
3.6.b.2 Ductile Iron Pipe 250mm	2022 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
3.6.b.3 High Density Polyethylene (HDPE) Pipe	2022 Nov	n.a.
	Dis	n.a.
3.6.b.3.i. Profile Pipe 150mm	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.

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.b Paip Pembedungan (samb.) <i>Sewerage Pipe (cont'd)</i>		RM Per Meter <i>RM Per Metre</i>
3.6.b.3 High Density Polyethylene (HDPE) Pipe	2022 Nov	108.02
	Dis	108.02
3.6.b.3.ii Solid Pipe 250mm	2023 Jan	108.02
	Feb	108.02
	Mac	108.02
	Apr	108.02
	Mei	108.02
	Jun	108.02
	Jul	108.02
	Ogos	108.02
	Sep	108.02
	Okt	108.02
	Nov	108.02
3.6.b.4 Vitrified Clay Pipe	2022 Nov	84.00
3.6.b.4.i Standard Pipe 225mm	Dis	84.00
	2023 Jan	104.54 ^r
	Feb	104.54 ^r
	Mac	104.54
	Apr	104.54
	Mei	104.54
	Jun	104.54
	Jul	104.54
	Ogos	104.54
	Sep	104.54
	Okt	111.97 ^r
	Nov	111.97
3.6.b.4.ii Jacking Pipe 225mm	2022 Nov	459.00
	Dis	459.00
	2023 Jan	485.00 ^r
	Feb	485.00 ^r
	Mac	485.00
	Apr	485.00
	Mei	485.00
	Jun	485.00
	Jul	485.00
	Ogos	485.00
	Sep	485.00
	Okt	485.00
	Nov	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	2022 Nov	253.50
3.6.b.5.i Without Lining	Dis	253.50
900mm	2023 Jan	253.50
	Feb	253.50
	Mac	253.50
	Apr	253.50
	Mei	253.50
	Jun	253.50
	Jul	253.50
	Ogos	253.50
	Sep	253.50
	Okt	289.00 ^c
	Nov	289.00
3.6.b.5.ii With Lining (High Alumina)	2022 Nov	n.a.
900mm	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	n.a.
3.6.b.5.iii With Lining (Sacrificial Lining)	2022 Nov	n.a.
900mm	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mar	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	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	2022 Nov	48.80
3.6.b.6.i Gravity 110mm	Dis	48.80
	2023 Jan	53.80
	Feb	53.80
	Mac	53.80
	Apr	53.80
	Mei	53.80
	Jun	53.80
	Jul	53.80
	Ogos	53.80
	Sep	53.80
	Okt	53.80
	Nov	53.80
3.6.b.6.ii Force Main 225mm	2022 Nov	n.a.
	Dis	n.a.
	2023 Jan	n.a.
	Feb	n.a.
	Mac	n.a.
	Apr	n.a.
	Mei	n.a.
	Jun	n.a.
	Jul	n.a.
	Ogos	n.a.
	Sep	n.a.
	Okt	n.a.
	Nov	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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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 "	12.98
500 "	17.76
560 "	21.02
iii. Butt Fussion	
110 mm Ø	0.48
125 "	0.62
140 "	0.76
160 "	1.00
180 "	1.25
200 "	1.56
225 "	1.94
250 "	2.38
280 "	2.97
315 "	3.76
355 "	4.79
400 "	6.06
450 "	7.90
500 "	7.90
560 "	12.61

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

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

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

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

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

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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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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> 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>