



**KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA**

**SEMENANJUNG MALAYSIA
PENINSULAR MALAYSIA**

SIARAN KHAS
Special Release **1**

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

DISEMBER
DISEMBER **2024**

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>.

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

Announcement

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

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

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

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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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RINGKASAN PENEMUAN

SUMMARY OF FINDINGS

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PURATA HARGA BAHAN BINAAN TERPILIH, MALAYSIA

DISEMBER 2024

MALAYSIA

BESI

Purata : 3,588.31
RM Per Meter
MoM : -1.1%
YoY : -1.1%

SIMEN (ORDINARY PORTLAND)

Purata : 23.25
RM Sekarung 50 Kg
MoM : 0.0%
YoY : 1.1%

BATU BAUR

Purata : 45.40
RM Per Tan Metrik
MoM : 0.3%
YoY : 4.7%

MYCON 60 HIGH TENSILE DEFORMED BARS

Purata : 3,385.68
RM Per Tan Metrik
MoM : -1.2%
YoY : -2.5%

BAR BULAT KELULI LEMBUT

Purata : 3,787.87
RM Per Tan Metrik
MoM : -1.0%
YoY : 0.2%

PASIR

Purata : 49.57
RM Per Tan Metrik
MoM : -1.4%
YoY : 7.3%

SEMANJANG MALAYSIA

SABAH

SARAWAK

Bar Bulat Keluli Lembang

PURATA
RM Per Tan Metrik
MoM (%)
YoY (%)

3,244.92

-1.3

-2.1

4,050.57

-1.3

-0.9

4,134.91

-0.4

3.7

MYCON 60 HIGH TENSILE DEFORMED BARS

PURATA
RM Per Tan Metrik
MoM (%)
YoY (%)

3,078.30

-1.7

-3.5

3,654.30

-0.8

-3.0

3,450.03

-1.1

-1.1

SIMEN (ORDINARY PORTLAND)

PURATA
RM Sekarung 50 Kg
MoM (%)
YoY (%)

23.02

0.0

1.6

19.42

0.0

0.0

20.68

0.0

0.0

PASIR

PURATA
RM Per Tan Metrik
MoM (%)
YoY (%)

57.78

0.0

12.1

71.60

0.8

1.8

30.79

-4.8

8.4

BATU BAUR

PURATA
RM Per Tan Metrik
MoM (%)
YoY (%)

33.58

0.6

5.3

57.96

0.2

7.3

48.07

0.1

1.4

Nota:

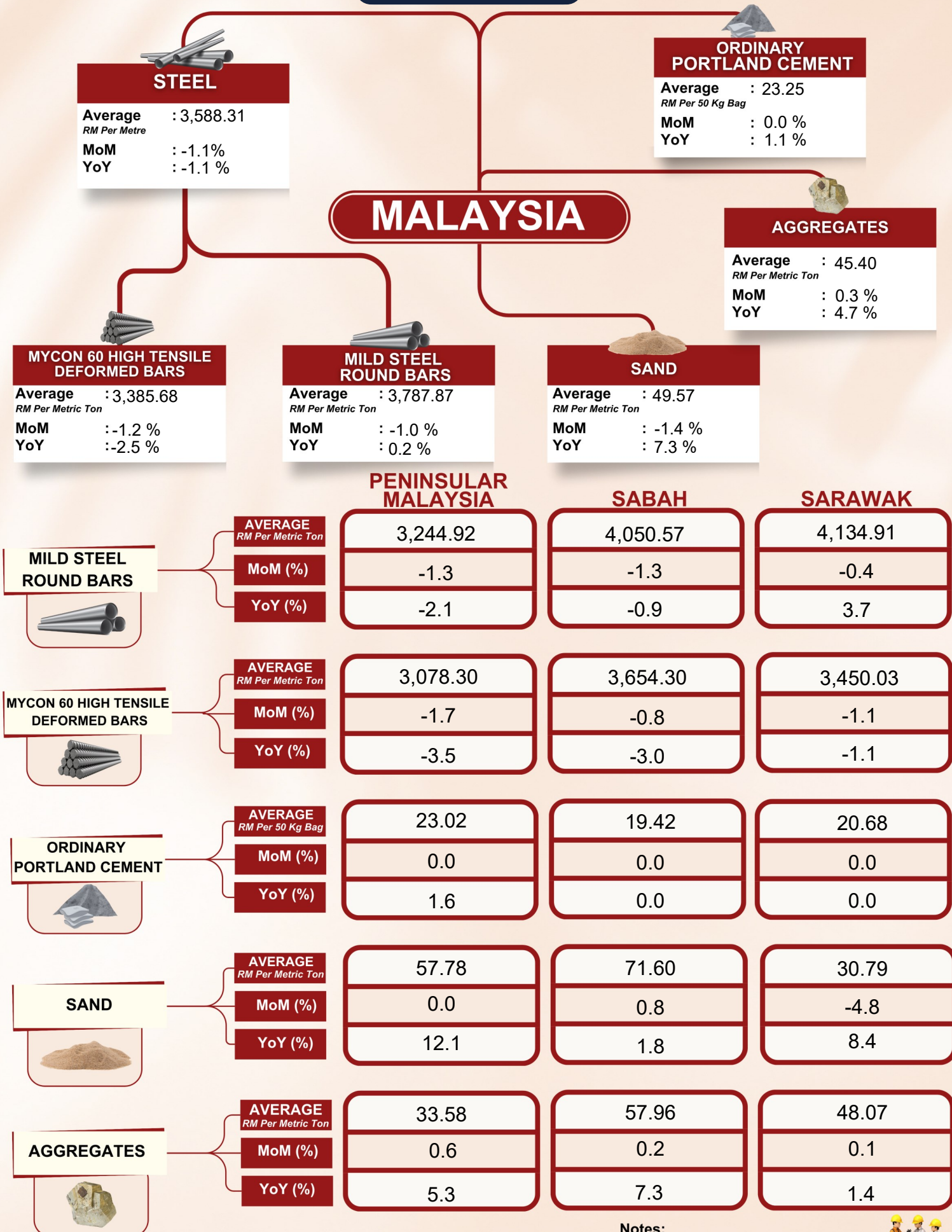
MoM : Perubahan peratus bulan ke bulan

YoY : Perubahan peratus tahun ke tahun



AVERAGE PRICE OF SELECTED BUILDING MATERIALS, MALAYSIA

DECEMBER 2024



Notes:

MoM : Percentage change of month on month
YoY : Percentage change of year on year



JADUAL
TABLE

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.1 Bar Bulat Keluli Lembut BS-4449 <i>Mild Steel Round Bars BS-4449</i>		RM Per Tan Metrik <i>RM Per Metric Ton</i>		
1.1.1 10mm (3/8")	2023 Dis	3,323.92	3,407.36	3,201.27
	2024 Jan	3,345.75	3,441.43	3,182.06
	Feb	3,337.32	3,441.43	3,182.14
	Mac	3,350.60	3,451.75	3,182.14
	Apr	3,318.90	3,486.27	3,213.96
	Mei	3,353.58	3,486.27	3,213.96
	Jun	3,348.16	3,479.30	3,213.96
	Jul	3,301.29	3,482.78	3,217.18
	Ogos	3,295.91	3,510.64	3,165.22
	Sep	3,207.60	3,489.58	3,165.22
	Okt	3,150.65	3,468.64	3,165.22
	Nov	3,133.90	3,458.23	3,152.70
	Dis	3,059.20	3,354.49	3,152.70
1.1.2 12mm (1/2")	2023 Dis	3,327.37	3,448.35	3,245.62
	2024 Jan	3,345.75	3,455.24	3,226.14
	Feb	3,337.00	3,455.24	3,239.05
	Mac	3,350.60	3,465.61	3,239.05
	Apr	3,320.44	3,455.21	3,271.44
	Mei	3,353.58	3,455.21	3,271.44
	Jun	3,348.16	3,450.03	3,271.44
	Jul	3,301.29	3,453.48	3,271.44
	Ogos	3,295.91	3,460.39	3,202.70
	Sep	3,207.60	3,432.70	3,202.70
	Okt	3,150.65	3,405.24	3,202.70
	Nov	3,145.60	3,395.03	3,189.90
	Dis	3,055.90	3,293.18	3,189.90
1.1.3 16mm (5/8")	2023 Dis	3,310.19	3,350.21	3,239.41
	2024 Jan	3,329.85	3,356.91	3,229.69
	Feb	3,319.68	3,356.91	3,245.84
	Mac	3,333.38	3,366.98	3,245.84
	Apr	3,309.50	3,346.78	3,278.30
	Mei	3,337.92	3,375.56	3,306.49
	Jun	3,331.30	3,370.50	3,306.49
	Jul	3,287.99	3,373.87	3,306.49
	Ogos	3,280.96	3,390.74	3,192.31
	Sep	3,192.66	3,363.61	3,192.31
	Okt	3,179.89	3,336.71	3,192.31
	Nov	3,156.90	3,326.69	3,176.80
	Dis	3,068.10	3,193.63	3,176.80

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.1 Bar Bulat Keluli Lembut BS-4449 (samb.) Mild Steel Round Bars BS-4449 (cont'd)		RM Per Tan Metrik RM Per Metric Ton		
1.1.4 20mm–25mm (3/4"–1")	2023 Dis	3,658.59	3,458.01	3,010.70
	2024 Jan	3,848.83	3,464.92	3,010.70
	Feb	3,887.32	3,464.92	3,131.13
	Mac	3,895.10	3,471.85	3,143.66
	Apr	3,973.00	3,461.44	3,175.09
	Mei	4,052.46	3,530.67	3,238.59
	Jun	3,973.00	3,523.61	3,238.59
	Jul	4,108.08	3,523.61	3,238.59
	Ogos	4,108.08	3,541.22	3,180.30
	Sep	4,108.08	3,519.98	3,180.30
	Okt	4,067.00	3,498.86	3,181.30
	Nov	4,067.00	3,498.86	3,181.30
	Dis	4,067.00	3,498.86	3,181.30
1.1.5 32mm (1 1/4")	2023 Dis	3,626.35	3,135.10	3,063.40
	2024 Jan	3,629.90	3,153.91	3,063.40
	Feb	3,629.90	3,153.91	3,063.40
	Mac	3,629.90	3,157.06	3,063.40
	Apr	3,666.20	3,188.63	3,094.04
	Mei	3,702.86	3,220.52	3,124.98
	Jun	3,646.00	3,194.76	3,094.04
	Jul	3,646.00	3,197.95	3,094.04
	Ogos	3,568.33	3,163.74	3,094.04
	Sep	3,393.33	3,048.61	3,094.04
	Okt	3,468.33	3,051.97	3,095.04
	Nov	3,428.30	3,051.97	3,095.04
	Dis	3,368.33	3,051.97	3,095.04
1.2 Mycon 60 High Tensile Deformed Bars				
1.2.1 10mm (3/8")	2023 Dis	3,225.77	3,244.45	3,333.04
	2024 Jan	3,282.53	3,247.70	3,356.61
	Feb	3,275.10	3,247.70	3,387.63
	Mac	3,265.10	3,250.95	3,391.02
	Apr	3,272.80	3,247.69	3,458.84
	Mei	3,276.50	3,247.69	3,458.84
	Jun	3,274.90	3,237.95	3,441.54
	Jul	3,238.88	3,237.95	3,455.31
	Ogos	3,239.09	3,237.95	3,385.28
	Sep	3,368.53	3,221.76	3,378.11
	Okt	3,339.32	3,154.62	3,350.23
	Nov	3,319.28	3,138.85	3,330.13
	Dis	3,252.90	3,076.07	3,263.53

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
1.2 Mycon 60 (Samb.) High Tensile Deformed Bars (Cont'd)		RM Per Tan Metrik RM Per Metric Ton		
1.2.2 12mm (1/2")	2023 Dis	3,202.51	3,236.12	3,377.32
	2024 Jan	3,265.42	3,239.35	3,408.10
	Feb	3,248.54	3,239.35	3,425.00
	Mac	3,252.97	3,239.35	3,425.00
	Apr	3,254.40	3,236.11	3,425.00
	Mei	3,257.80	3,239.35	3,428.43
	Jun	3,257.80	3,229.63	3,425.00
	Jul	3,221.96	3,229.63	3,401.02
	Ogos	3,225.31	3,236.09	3,387.42
	Sep	3,110.73	3,219.91	3,374.54
	Okt	3,074.12	3,148.13	3,346.53
	Nov	3,067.97	3,138.69	3,333.14
	Dis	2,997.41	3,075.91	3,266.48
1.2.3 16mm–25mm (5/8"–1")	2023 Dis	3,068.18	3,156.78	3,085.04
	2024 Jan	3,130.27	3,164.19	3,088.54
	Feb	3,119.04	3,164.19	3,103.35
	Mac	3,119.04	3,157.86	3,103.35
	Apr	3,124.40	3,154.70	3,103.35
	Mei	3,135.90	3,166.38	3,114.83
	Jun	3,142.17	3,153.71	3,114.83
	Jul	3,104.47	3,153.71	3,127.29
	Ogos	3,099.43	3,156.86	3,090.48
	Sep	2,984.75	3,142.63	3,090.48
	Okt	2,946.09	3,125.80	3,080.31
	Nov	2,946.09	3,110.90	3,080.31
	Dis	2,887.17	3,048.68	3,081.31
1.2.4 32mm (1 1/4")	2023 Dis	3,045.91	3,247.76	3,087.18
	2024 Jan	3,100.28	3,257.50	3,087.18
	Feb	3,101.28	3,267.27	3,088.18
	Mac	3,087.83	3,277.07	3,089.18
	Apr	3,100.20	3,273.80	3,089.18
	Mei	3,097.70	3,270.52	3,086.09
	Jun	3,085.31	3,254.17	3,086.09
	Jul	3,051.37	3,257.42	3,086.09
	Ogos	3,041.05	3,151.47	3,086.09
	Sep	2,926.46	3,128.08	3,086.09
	Okt	2,915.53	3,130.08	3,086.09
	Nov	2,924.50	3,133.60	3,083.00
	Dis	2,866.01	3,070.93	3,084.00

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 <i>Ordinary Portland</i>	2023 Dis	22.60	22.65	22.68
	2024 Jan	22.58	22.31	22.75
	Feb	22.57	22.31	22.75
	Mac	22.72	22.54	22.71
	Apr	22.60	22.70	22.60
	Mei	22.80	22.70	22.65
	Jun	22.85	22.85	22.95
	Jul	22.95	22.90	23.05
	Ogos	22.95	22.94	23.05
	Sep	23.07	22.86	23.02
	Okt	23.08	22.86	23.02
	Nov	23.10	22.90	23.05
	Dis	23.10	22.90	23.05

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 Bitumen 60/70 Penetration		RM Per Tan Metrik RM Per Metric Ton
	2023 Dis	3,030.00
	2024 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
	Dis	3,030.00

Item	Tempoh Period	Semenanjung Malaysia Peninsular Malaysia
2.2 Minyak Gas Automotif Automotive Gas Oil		RM Seliter RM Per Litre Runcit Retail
Diesel	2023 Dis	2.15
Diesel	2024 Jan	2.15
	Feb	2.15
	Mac	2.15
	Apr	2.15
	Mei	2.15
	Jun	2.99
	Jul	3.35
	Ogos	3.35
	Sep	3.06 ^r
	Okt	2.95
	Nov	2.95
	Dis	2.95

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 Sand		RM Per Tan Metrik RM Per Metric Ton		
3.1.1 Pasir Sungai River Sand	2023 Dis	54.06	61.20	39.55
	2024 Jan	54.06	61.20	39.55
	Feb	54.06	61.20	39.55
	Mac	54.35	61.20	40.38
	Apr	54.56	61.67	40.55
	Mei	54.56	61.80	40.92
	Jun	54.52	62.80	41.17
	Jul	57.98	65.67	43.67
	Ogos	57.69 ^r	71.93 ^r	44.17
	Sep	58.32	72.20	44.17
	Okt	58.61	72.93	44.17
	Nov	58.61	72.93	44.17
	Dis	58.32	72.93	44.17
3.1.2 Pasir Lombong Mining Sand	2023 Dis	44.58	62.52	n.a.
	2024 Jan	44.58	62.77	n.a.
	Feb	44.58	62.79	n.a.
	Mac	44.58	62.79	n.a.
	Apr	45.50	63.29	n.a.
	Mei	45.50	63.38	n.a.
	Jun	45.83	63.96	n.a.
	Jul	46.83	64.20	n.a.
	Ogos	51.00 ^r	65.76 ^r	n.a.
	Sep	51.00	65.85	n.a.
	Okt	51.00	67.02	n.a.
	Nov	51.00	67.02	n.a.
	Dis	51.00	67.24	n.a.
3.2 Batu Baur Aggregates				
3.2.1 Granite 10mm (3/8")	2023 Dis	32.00	31.08	34.50
	2024 Jan	32.00	31.33	34.50
	Feb	32.00	31.36	34.78
	Mac	32.25	31.47	34.78
	Apr	32.25	31.41	34.78
	Mei	32.94	31.41	34.78
	Jun	33.63	31.25	34.78
	Jul	34.00	31.47	34.17
	Ogos	34.00	32.35 ^r	34.17
	Sep	34.00	32.96	34.17
	Okt	34.00	33.26	34.50
	Nov	34.00	33.49	34.50
	Dis	34.00	33.49	35.11

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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.2 Batu Baur (Samb.) Aggregates (Cont'd)		RM Per Tan Metrik RM Per Metric Ton		
3.2.2 Granite 20mm (3/4")	2023 Dis	54.33	36.94	33.40
	2024 Jan	54.79	37.04	33.40
	Feb	55.20	37.13	33.40
	Mac	55.71	37.27	33.09
	Apr	55.94	37.35	33.42
	Mei	56.30	37.34	33.42
	Jun	56.10	37.51	33.42
	Jul	57.38	37.83	33.67
	Ogos	58.62 ^r	38.85	33.67
	Sep	58.62	39.64	33.67
	Okt	58.48	39.78	34.00
	Nov	58.62	39.78	34.09
	Dis	58.62	39.84	34.09
3.2.3 Granite 40mm (1 1/2")	2023 Dis	24.86	33.42	35.93
	2024 Jan	24.86	32.97	35.93
	Feb	24.86	33.01	35.95
	Mac	25.66	33.01	35.95
	Apr	25.66	33.01	35.95
	Mei	25.66	33.01	35.95
	Jun	25.66	32.29	35.95
	Jul	25.66	33.29	33.69
	Ogos	25.66	34.50	33.69
	Sep	25.66	34.50	33.69
	Okt	25.66	35.04	33.94
	Nov	25.66	34.77	33.94
	Dis	25.66	34.77	34.81
3.2.4 Crushed Aggregate (Crusher Run)	2023 Dis	25.95	24.64	25.13
	2024 Jan	27.00	26.00	26.00
	Feb	27.00	26.00	26.00
	Mac	27.00	26.00	26.20
	Apr	27.00	26.00	26.20
	Mei	27.00	26.00	26.20
	Jun	27.00	26.60	26.20
	Jul	27.00	27.00	26.50
	Ogos	27.00	27.50	26.50
	Sep	27.00	27.60	26.50
	Okt	27.20	27.75	26.65
	Nov	27.20	27.75	26.70
	Dis	27.50	28.00	27.00

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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.3.a Premix Asphaltic Concrete		RM Per Tan Metrik RM Per Metric Ton		
3.3.a.1 AC 10 (Wearing Course)	2023 Dis	211.25	209.80	260.25
	2024 Jan	218.00	209.80	260.25
	Feb	218.00	209.80	260.25
	Mac	218.00	209.80	260.25
	Apr	218.00	209.80	260.25
	Mei	219.60	208.67	260.25
	Jun	222.00	209.80	260.25
	Jul	222.00	209.80	260.25
	Ogos	222.00	210.62	271.25
	Sep	222.00	212.62	271.25
	Okt	222.00	212.62	271.25
	Nov	227.00	212.62	271.25
	Dis	226.00	213.42	271.25
3.3.a.2 AC 14 (Wearing Course)	2023 Dis	209.17	214.00	245.08
	2024 Jan	214.29	214.00	243.42
	Feb	214.29	214.00	243.42
	Mac	214.29	214.00	241.75
	Apr	214.29	213.58	240.92
	Mei	215.71	212.09	240.92
	Jun	217.14	214.00	240.25
	Jul	217.14	214.00	240.25
	Ogos	217.14	214.69	245.50
	Sep	217.14	218.03	246.33
	Okt	217.14	218.03	247.67
	Nov	220.71	218.03	248.00
	Dis	220.00	219.53	248.00
3.3.a.3 AC 28 (Binder Course)	2023 Dis	206.00	205.50	241.02
	2024 Jan	210.86	205.50	239.02
	Feb	210.86	205.50	239.02
	Mac	210.86	205.50	239.40
	Apr	210.86	203.63	238.40
	Mei	212.29	204.88	238.40
	Jun	213.71	203.63	237.60
	Jul	213.71	203.63	237.60
	Ogos	213.71	204.76	244.00
	Sep	213.71	207.26	245.00
	Okt	213.71	207.26	248.00
	Nov	217.29	207.26	248.00
	Dis	216.57	207.26	248.00

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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.3.a Premix Asphaltic Concrete (samb.) (cont'd)		RM Per Tan Metrik RM Per Metric Ton		
3.3.a.4 ACW 20 (Wearing Course)	2023 Dis	211.60	212.09	256.67
	2024 Jan	216.33	212.09	253.33
	Feb	216.33	212.09	253.33
	Mac	217.17	212.09	253.33
	Apr	217.17	211.18	251.67
	Mei	218.83	211.18	251.67
	Jun	220.50	211.18	255.00
	Jul	220.60	211.18	255.00
	Ogos	220.60	211.94	264.00
	Sep	220.60	215.58	264.00
	Okt	220.60	215.58	268.67
	Nov	225.60	215.58	268.67
	Dis	224.60	216.30	267.00

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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.3.b Premix Bituminous Macadam		RM Per Tan Metrik RM Per Metric Ton		
3.3.b.1 BMR40 (Bound Roadbase)	2023 Dis	200.00	184.40	n.a.
	2024 Jan	210.00	184.40	n.a.
	Feb	210.00	186.40	n.a.
	Mac	210.00	184.40	n.a.
	Apr	210.00	184.40	n.a.
	Mei	210.00	184.40	n.a.
	Jun	211.67	184.40	n.a.
	Jul	211.67	184.40	n.a.
	Ogos	211.67	184.40	n.a.
	Sep	211.67	196.40	n.a.
	Okt	211.67	196.40	n.a.
	Nov	216.67	196.40	n.a.
	Dis	215.00	196.40	n.a.
3.3.b.2 BMR28 (Bound Roadbase)	2023 Dis	205.00	194.75	n.a.
	2024 Jan	215.00	194.75	n.a.
	Feb	215.00	194.75	n.a.
	Mac	215.00	194.75	n.a.
	Apr	215.00	194.75	n.a.
	Mei	215.00	194.00	n.a.
	Jun	216.67	194.88	n.a.
	Jul	216.67	194.88	n.a.
	Ogos	216.67	194.75	n.a.
	Sep	216.67	202.25	n.a.
	Okt	216.67	202.25	n.a.
	Nov	221.67	202.25	n.a.
	Dis	225.00	202.25	n.a.
3.3.b.3 BML10 (Levelling Course)	2023 Dis	211.67	217.71	230.50
	2024 Jan	211.67	217.71	225.50
	Feb	211.67	217.71	225.50
	Mac	211.67	217.71	225.50
	Apr	211.67	217.71	223.00
	Mei	211.67	216.29	223.00
	Jun	213.33	218.43	228.00
	Jul	213.33	218.43	228.00
	Ogos	213.33	217.71	230.50
	Sep	213.33	226.29	230.50
	Okt	213.33	226.29	230.50
	Nov	218.33	226.29	230.50
	Dis	221.67	226.29	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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.3.b Premix Bituminous Macadam (samb.) (cont'd)		RM Per Tan Metrik RM Per Metric Ton		
3.3.b.4 BMB28 (Binder Course)	2023 Dis	206.67	205.38	227.50
	2024 Jan	213.75	205.38	222.50
	Feb	213.75	205.38	222.50
	Mac	213.75	205.38	222.50
	Apr	213.75	205.38	220.00
	Mei	213.75	203.29	220.00
	Jun	212.50	205.38	225.00
	Jul	212.50	205.38	225.00
	Ogos	212.50	205.38	227.50
	Sep	212.50	212.88	227.50
	Okt	212.50	212.88	227.50
	Nov	216.25	212.88	227.50
	Dis	218.75	212.88	227.50
3.3.b.5 BMB20 (Binder Course)	2023 Dis	207.50	211.29	247.67
	2024 Jan	216.67	211.29	244.33
	Feb	216.67	212.00	244.33
	Mac	216.67	211.29	244.33
	Apr	216.67	211.29	242.67
	Mei	216.67	211.29	242.67
	Jun	218.33	211.29	246.00
	Jul	218.33	211.29	246.00
	Ogos	218.33	210.86	255.00
	Sep	218.33	217.00	255.00
	Okt	218.33	217.00	255.00
	Nov	223.33	217.00	255.00
	Dis	226.67	217.00	255.00
3.3.b.6 BMW14 (Wearing Course)	2023 Dis	210.00	214.33	248.67
	2024 Jan	217.50	214.22	245.33
	Feb	217.50	214.33	245.33
	Mac	217.50	214.33	245.33
	Apr	217.50	213.78	243.67
	Mei	217.50	209.88	243.67
	Jun	218.75	214.33	247.00
	Jul	218.75	214.33	247.00
	Ogos	218.75	214.00	256.00
	Sep	218.75	220.44	256.00
	Okt	218.75	220.44	256.00
	Nov	222.50	220.44	256.00
	Dis	225.00	220.44	256.00

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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.3.b Premix Bituminous Macadam (samb.) (cont'd)		RM Per Tan Metrik RM Per Metric Ton		
3.3.b.7 BMW20 (Wearing Course)	2023 Dis	210.00	212.11	268.00
	2024 Jan	210.00	212.11	268.00
	Feb	210.00	213.78	268.00
	Mac	210.00	212.11	268.00
	Apr	210.00	211.56	268.00
	Mei	210.00	207.38	268.00
	Jun	212.50	212.11	268.00
	Jul	212.50	212.11	268.00
	Ogos	212.50	212.11	279.00
	Sep	212.50	218.22	279.00
	Okt	212.50	218.22	279.00
	Nov	220.00	218.22	279.00
	Dis	225.00	218.22	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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement		RM Per Kg RM Per Kg		
3.4.1 A4, MS145	2023 Dis	3.64	3.78	4.04
	2024 Jan	3.64	4.12	4.04
	Feb	3.64	4.12	4.04
	Mac	3.64	4.12	4.04
	Apr	3.64	4.12	4.04
	Mei	3.64	4.29	4.04
	Jun	3.64	4.29	4.04
	Jul	3.64	4.29	4.07
	Ogos	3.64	4.29	4.07
	Sep	3.64	4.29	4.07
	Okt	3.64	4.29	4.07
	Nov	3.64	4.29	4.07
	Dis	3.64	4.29	4.07
3.4.2 A5, MS145	2023 Dis	3.27	3.55	4.00
	2024 Jan	3.27	3.85	4.00
	Feb	3.27	3.85	4.00
	Mac	3.27	3.85	4.00
	Apr	3.27	3.85	4.00
	Mei	3.27	3.85	4.00
	Jun	3.27	3.85	4.00
	Jul	3.27	3.85	4.04
	Ogos	3.27	3.85	4.04
	Sep	3.27	3.85	4.04
	Okt	3.27	3.85	4.04
	Nov	3.27	3.85	4.04
	Dis	3.27	3.85	4.04
3.4.3 A6, MS145	2023 Dis	2.93	3.32	3.59
	2024 Jan	2.93	3.83	3.59
	Feb	2.93	3.83	3.59
	Mac	2.93	3.83	3.59
	Apr	2.93	3.83	3.59
	Mei	2.93	3.83	3.59
	Jun	2.93	3.83	3.59
	Jul	2.93	3.83	3.62
	Ogos	2.93	3.83	3.62
	Sep	3.15 ^r	3.83	3.62
	Okt	3.11	3.83	3.62
	Nov	3.11	3.83	3.62
	Dis	3.11	3.83	3.62

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.4 A7, MS145	2023 Dis	3.11	3.44	3.59
	2024 Jan	3.11	4.02	3.59
	Feb	3.11	4.03	3.59
	Mac	3.11	4.03	3.59
	Apr	3.11	4.03	3.59
	Mei	3.11	4.03	3.59
	Jun	3.11	4.03	3.59
	Jul	3.11	4.03	3.62
	Ogos	3.11	4.03	3.62
	Sep	3.11	4.03	3.62
	Okt	3.11	4.03	3.62
	Nov	3.11	4.03	3.62
	Dis	3.11	4.03	3.62
3.4.5 A8, MS145	2023 Dis	3.11	3.03	3.59
	2024 Jan	3.11	3.22	3.59
	Feb	3.11	3.22	3.59
	Mac	3.11	3.22	3.59
	Apr	3.11	3.22	3.59
	Mei	3.11	3.22	3.59
	Jun	3.11	3.22	3.59
	Jul	3.11	3.22	3.62
	Ogos	3.11	3.22	3.62
	Sep	3.12 ^r	3.22	3.62
	Okt	3.12	3.22	3.62
	Nov	3.12	3.22	3.62
	Dis	3.12	3.22	3.62
3.4.6 A9, MS145	2023 Dis	2.79	2.79	3.59
	2024 Jan	2.79	2.84	3.59
	Feb	2.79	2.84	3.59
	Mac	2.79	2.84	3.59
	Apr	2.79	2.84	3.59
	Mei	2.79	2.93	3.59
	Jun	2.79	2.93	3.59
	Jul	2.79	2.93	3.62
	Ogos	2.79	2.93	3.62
	Sep	3.11 ^r	2.93	3.62
	Okt	3.11	2.93	3.62
	Nov	3.11	2.93	3.62
	Dis	3.11	2.93	3.62

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)		RM Per Kg RM Per Kg		
3.4.7 A10, MS145	2023 Dis	3.24	2.80	3.59
	2024 Jan	3.24	2.91	3.59
	Feb	3.24	2.91	3.59
	Mac	3.24	2.91	3.59
	Apr	3.24	2.91	3.59
	Mei	3.24	2.91	3.59
	Jun	3.24	2.91	3.59
	Jul	3.24	2.91	3.62
	Ogos	3.24	2.91	3.62
	Sep	3.11 ^r	2.91	3.62
	Okt	3.11	2.91	3.62
	Nov	3.11	2.91	3.62
	Dis	3.11	2.91	3.62
3.4.8 B5, MS145	2023 Dis	3.60	3.45	3.99
	2024 Jan	3.60	3.83	3.99
	Feb	3.60	3.83	3.99
	Mac	3.60	3.80	3.99
	Apr	3.60	3.83	3.99
	Mei	3.60	3.83	3.99
	Jun	3.60	3.83	3.99
	Jul	3.60	3.83	4.03
	Ogos	3.60	3.83	4.03
	Sep	3.60	3.83	4.03
	Okt	3.60	3.83	4.03
	Nov	3.60	3.83	4.03
	Dis	3.60	3.83	4.03
3.4.9 B6, MS145	2023 Dis	3.24	3.03	3.59
	2024 Jan	3.24	3.31	3.59
	Feb	3.24	3.31	3.59
	Mac	3.24	3.31	3.59
	Apr	3.24	3.31	3.59
	Mei	3.24	3.31	3.59
	Jun	3.24	3.29	3.59
	Jul	3.24	3.29	3.62
	Ogos	3.24	3.29	3.62
	Sep	3.24	3.29	3.62
	Okt	3.24	3.29	3.62
	Nov	3.24	3.29	3.62
	Dis	3.24	3.29	3.62

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.10 B7, MS145	2023 Dis	3.24	2.81	3.59
	2024 Jan	3.24	2.99	3.59
	Feb	3.24	2.99	3.59
	Mac	3.24	2.99	3.59
	Apr	3.24	2.99	3.59
	Mei	3.24	2.99	3.59
	Jun	3.24	2.99	3.59
	Jul	3.24	2.99	3.62
	Ogos	3.24	2.99	3.62
	Sep	3.24	2.99	3.62
	Okt	3.24	2.99	3.62
	Nov	3.24	2.99	3.62
	Dis	3.24	2.99	3.62
3.4.11 B8, MS145	2023 Dis	3.24	2.93	3.59
	2024 Jan	3.24	3.13	3.59
	Feb	3.24	3.13	3.59
	Mac	3.24	3.13	3.59
	Apr	3.24	3.13	3.59
	Mei	3.24	3.13	3.59
	Jun	3.24	3.13	3.59
	Jul	3.24	3.13	3.63
	Ogos	3.24	3.13	3.63
	Sep	3.24	3.13	3.63
	Okt	3.24	3.13	3.63
	Nov	3.24	3.13	3.63
	Dis	3.24	3.13	3.63
3.4.12 B9, MS145	2023 Dis	3.67	2.62	3.59
	2024 Jan	3.67	2.97	3.59
	Feb	3.67	2.97	3.59
	Mac	3.67	2.97	3.59
	Apr	3.67	2.97	3.59
	Mei	3.67	2.97	3.59
	Jun	3.67	2.97	3.59
	Jul	3.67	2.97	3.62
	Ogos	3.67	2.97	3.62
	Sep	3.67	2.97	3.62
	Okt	3.67	2.97	3.62
	Nov	3.67	2.97	3.62
	Dis	3.67	2.97	3.62

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.13 B10, MS145	2023 Dis	3.24	2.90	3.58
	2024 Jan	3.24	3.05	3.58
	Feb	3.24	3.05	3.58
	Mac	3.24	3.05	3.58
	Apr	3.24	3.05	3.58
	Mei	3.24	3.05	3.58
	Jun	3.24	3.10	3.58
	Jul	3.24	3.10	3.62
	Ogos	3.24	3.10	3.62
	Sep	3.24	3.10	3.62
	Okt	3.24	3.10	3.62
	Nov	3.24	3.10	3.62
	Dis	3.24	3.10	3.62
3.4.14 B12, MS145	2023 Dis	3.58	3.09	3.97
	2024 Jan	3.58	3.24	3.97
	Feb	3.58	3.24	3.97
	Mac	3.58	3.24	3.97
	Apr	3.58	3.24	3.97
	Mei	3.58	3.24	3.97
	Jun	3.58	3.24	3.97
	Jul	3.58	3.24	4.00
	Ogos	3.58	3.24	4.00
	Sep	3.58	3.24	4.00
	Okt	3.58	3.24	4.00
	Nov	3.58	3.24	4.00
	Dis	3.58	3.24	4.00
3.4.15 C5, MS145	2023 Dis	3.61	3.93	3.99
	2024 Jan	3.61	4.67	3.99
	Feb	3.61	4.67	3.99
	Mac	3.61	4.67	3.99
	Apr	3.61	4.67	3.99
	Mei	3.61	4.67	3.99
	Jun	3.61	4.67	3.99
	Jul	3.61	4.67	4.03
	Ogos	3.61	4.67	4.03
	Sep	3.61	4.67	4.03
	Okt	3.61	4.67	4.03
	Nov	3.61	4.67	4.03
	Dis	3.61	4.67	4.03

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.16 C6, MS145	2023 Dis	3.60	3.67	3.99
	2024 Jan	3.60	4.22	3.99
	Feb	3.60	4.22	3.99
	Mac	3.60	4.22	3.99
	Apr	3.60	4.22	3.99
	Mei	3.60	4.22	3.99
	Jun	3.60	4.22	3.99
	Jul	3.60	4.22	4.03
	Ogos	3.60	4.22	4.03
	Sep	3.60	4.22	4.03
	Okt	3.60	4.22	4.03
	Nov	3.60	4.22	4.03
	Dis	3.60	4.22	4.03
3.4.17 C7, MS145	2023 Dis	3.60	3.61	3.99
	2024 Jan	3.60	4.12	3.99
	Feb	3.60	4.12	3.99
	Mac	3.60	4.12	3.99
	Apr	3.60	4.12	3.99
	Mei	3.60	4.12	3.99
	Jun	3.60	4.12	3.99
	Jul	3.60	4.12	4.02
	Ogos	3.60	4.12	4.02
	Sep	3.60	4.12	4.02
	Okt	3.60	4.12	4.02
	Nov	3.60	4.12	4.02
	Dis	3.60	4.12	4.02
3.4.18 C8, MS145	2023 Dis	3.59	3.58	3.98
	2024 Jan	3.59	4.10	3.98
	Feb	3.59	4.10	3.98
	Mac	3.59	4.10	3.98
	Apr	3.59	4.10	3.98
	Mei	3.59	4.10	3.98
	Jun	3.59	4.10	3.98
	Jul	3.59	4.10	4.01
	Ogos	3.59	4.10	4.01
	Sep	3.59	4.10	4.01
	Okt	3.59	4.10	4.01
	Nov	3.59	4.10	4.01
	Dis	3.59	4.10	4.01

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.19 C9, MS145	2023 Dis	3.60	3.55	3.98
	2024 Jan	3.60	4.00	3.98
	Feb	3.60	4.00	3.98
	Mac	3.60	4.00	3.98
	Apr	3.60	4.00	3.98
	Mei	3.60	4.00	3.98
	Jun	3.60	4.00	3.98
	Jul	3.60	4.00	4.02
	Ogos	3.60	4.00	4.02
	Sep	3.60	4.00	4.02
	Okt	3.60	4.00	4.02
	Nov	3.60	4.00	4.02
	Dis	3.60	4.00	4.02
3.4.20 C10, MS145	2023 Dis	3.60	3.48	3.98
	2024 Jan	3.60	3.89	3.98
	Feb	3.60	3.89	3.98
	Mac	3.60	3.89	3.98
	Apr	3.60	3.89	3.98
	Mei	3.60	3.89	3.98
	Jun	3.60	3.89	3.98
	Jul	3.60	3.89	4.02
	Ogos	3.60	3.89	4.02
	Sep	3.60	3.89	4.02
	Okt	3.60	3.89	4.02
	Nov	3.60	3.89	4.02
	Dis	3.60	3.89	4.02
3.4.21 DA4, MS145	2023 Dis	3.64	3.80	4.02
	2024 Jan	3.64	4.42	4.02
	Feb	3.64	4.42	4.02
	Mac	3.64	4.42	4.02
	Apr	3.64	4.42	4.02
	Mei	3.64	4.42	4.02
	Jun	3.64	4.42	4.02
	Jul	3.64	4.42	4.06
	Ogos	3.64	4.42	4.06
	Sep	3.64	4.42	4.06
	Okt	3.64	4.42	4.06
	Nov	3.64	4.42	4.06
	Dis	3.64	4.42	4.06

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.22 DA5, MS145	2023 Dis	3.61	3.74	4.00
	2024 Jan	3.61	4.33	4.00
	Feb	3.61	4.33	4.00
	Mac	3.61	4.33	4.00
	Apr	3.61	4.33	4.00
	Mei	3.61	4.33	4.00
	Jun	3.61	4.33	4.00
	Jul	3.61	4.33	4.04
	Ogos	3.61	4.33	4.04
	Sep	3.61	4.33	4.04
	Okt	3.61	4.33	4.04
	Nov	3.61	4.33	4.04
	Dis	3.61	4.33	4.04
3.4.23 DA6, MS145	2023 Dis	3.24	3.35	3.59
	2024 Jan	3.24	3.87	3.59
	Feb	3.24	3.49	3.59
	Mac	3.24	3.87	3.59
	Apr	3.24	3.87	3.59
	Mei	3.24	3.87	3.59
	Jun	3.24	3.87	3.59
	Jul	3.24	3.87	3.62
	Ogos	3.24	3.87	3.62
	Sep	3.24	3.87	3.62
	Okt	3.24	3.87	3.62
	Nov	3.24	3.87	3.62
	Dis	3.24	3.87	3.62
3.4.24 DA7, MS145	2023 Dis	3.24	3.21	3.59
	2024 Jan	3.24	3.63	3.59
	Feb	3.24	3.63	3.59
	Mac	3.24	3.63	3.59
	Apr	3.24	3.63	3.59
	Mei	3.24	3.63	3.59
	Jun	3.24	3.63	3.59
	Jul	3.24	3.63	3.62
	Ogos	3.24	3.63	3.62
	Sep	3.24	3.63	3.62
	Okt	3.24	3.63	3.62
	Nov	3.24	3.63	3.62
	Dis	3.24	3.63	3.62

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.4 Fabric Reinforcement (samb.) (cont'd)			RM Per Kg RM Per Kg	
3.4.25 DA8, MS145	2023 Dis	3.24	3.14	3.59
	2024 Jan	3.24	3.52	3.59
	Feb	3.24	3.52	3.59
	Mac	3.24	3.52	3.59
	Apr	3.24	3.52	3.59
	Mei	3.24	3.52	3.59
	Jun	3.24	3.52	3.59
	Jul	3.24	3.52	3.62
	Ogos	3.24	3.52	3.62
	Sep	3.24	3.52	3.62
	Okt	3.24	3.52	3.62
	Nov	3.24	3.52	3.62
	Dis	3.24	3.52	3.62
3.4.26 DA9, MS145	2023 Dis	3.24	3.57	3.59
	2024 Jan	3.24	3.57	3.59
	Feb	3.24	3.57	3.59
	Mac	3.24	3.57	3.59
	Apr	3.24	3.57	3.59
	Mei	3.24	3.57	3.59
	Jun	3.24	3.57	3.59
	Jul	3.24	3.57	3.62
	Ogos	3.24	3.57	3.62
	Sep	3.24	3.57	3.62
	Okt	3.24	3.57	3.62
	Nov	3.24	3.57	3.62
	Dis	3.24	3.57	3.62
3.4.27 DA10, MS145	2023 Dis	3.23	3.56	3.57
	2024 Jan	3.23	3.56	3.57
	Feb	3.23	3.56	3.57
	Mac	3.23	3.56	3.57
	Apr	3.23	3.56	3.57
	Mei	3.23	3.56	3.57
	Jun	3.23	3.56	3.57
	Jul	3.23	3.56	3.60
	Ogos	3.23	3.56	3.60
	Sep	3.23	3.56	3.60
	Okt	3.23	3.56	3.60
	Nov	3.23	3.56	3.60
	Dis	3.23	3.56	3.60

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.5 Guardrail		RM Per Meter RM Per Metre		
3.5.1 Single Mounted	2023 Dis	200.20	207.95	212.60
3.5.1.i 1.95m Post Spacing	2024 Jan	194.30	196.10	200.80
	Feb	194.30	196.10	200.80
	Mac	194.30	196.10	200.80
	Apr	189.40	191.15	195.90
	Mei	189.40	191.15	195.90
	Jun	189.40	191.15	195.90
	Jul	191.60	193.35	198.10
	Ogos	191.60	193.35	198.10
	Sep	191.60	193.35	198.10
	Okt	191.60	193.35	198.10
	Nov	191.60	193.35	198.10
	Dis	191.60	193.35	198.10
3.5.1.ii 3.80m Post Spacing	2023 Dis	142.35	147.70	151.00
	2024 Jan	138.20	139.45	142.80
	Feb	138.20	139.45	142.80
	Mac	138.20	139.45	142.80
	Apr	135.20	136.45	139.70
	Mei	135.20	136.45	139.70
	Jun	135.20	136.45	139.70
	Jul	136.30	137.55	140.80
	Ogos	136.30	137.55	140.80
	Sep	136.30	137.55	140.80
	Okt	136.30	137.55	140.80
	Nov	136.30	137.55	140.80
	Dis	136.30	137.55	140.80

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

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

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

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

Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
3.5 Guardrail (samb.) (cont'd)		RM Per Meter RM Per Metre		
3.5.2 Double Mounted	2023 Dis	308.40	319.90	327.00
3.5.2.i 1.95m Post Spacing	2024 Jan	299.60	302.30	309.40
	Feb	299.60	302.30	309.40
	Mac	299.60	302.30	309.40
	Apr	292.50	295.15	302.30
	Mei	292.50	295.15	302.30
	Jun	292.50	295.15	302.30
	Jul	295.20	297.90	305.00
	Ogos	295.20	297.90	305.00
	Sep	295.20	297.90	305.00
	Okt	295.20	297.90	305.00
	Nov	295.20	297.90	305.00
	Dis	295.20	297.90	305.00
3.5.2.ii 3.80m Post Spacing	2023 Dis	238.65	247.45	252.90
	2024 Jan	231.90	233.95	239.40
	Feb	231.90	233.95	239.40
	Mac	231.90	233.95	239.40
	Apr	227.25	229.70	234.80
	Mei	227.25	229.70	234.80
	Jun	227.25	229.70	234.80
	Jul	228.60	233.15	236.10
	Ogos	228.60	233.15	236.10
	Sep	228.60	233.15	236.10
	Okt	228.60	233.15	236.10
	Nov	228.60	233.15	236.10
	Dis	228.60	233.15	236.10

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

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

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

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

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.a Paip Air Water Pipe		RM Per Meter RM Per Metre
3.6.a.1 Mild Steel Pipe 300mm	2023 Dis	303.00
	2024 Jan	312.00
	Feb	314.00
	Mac	310.00
	Apr	307.00
	Mei	305.00
	Jun	303.00
	Jul	301.00
	Ogos	288.00
	Sep	280.00
	Okt	285.00
	Nov	290.00
	Dis	291.00
3.6.a.2 Stainless Steel Pipe 25mm	2023 Dis	n.a.
	2024 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.
	Dis	n.a.
3.6.a.3 Ductile Iron Pipe 300mm	2023 Dis	n.a.
	2024 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.
	Dis	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 pembetungan (samb.)

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

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.a. Paip Air (samb.) <i>Water Pipe (cont'd)</i>		RM Per Meter <i>RM Per Metre</i>
3.6.a.4 High Density Polyethylene (HDPE) Pipe 3.6.a.4.i. Compression Fitting Using For Jointing 25mm	2023 Dis	n.a.
	2024 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.
	Dis	n.a.
3.6.a.4.ii. Electrofusion Jointing 160mm	2023 Dis	n.a.
	2024 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.
	Dis	n.a.
3.6.a.4.iii. Butt Fussion 160mm	2023 Dis	n.a.
	2024 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.
	Dis	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 Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.b Paip Pembetungan (samb.) Sewerage Pipe (cont'd)		RM Per Meter RM Per Metre
3.6.b.1 Mild Steel Pipe 300mm	2023 Dis	326.82
	2024 Jan	336.53
	Feb	338.69
	Mac	334.37
	Apr	331.14
	Mei	328.98
	Jun	326.82
	Jul	324.66
	Ogos	310.64
	Sep	302.01
	Okt	307.41
	Nov	312.80
	Dis	313.88
3.6.b.2 Ductile Iron Pipe 250mm	2023 Dis	n.a.
	2024 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.
	Dis	n.a.
3.6.b.3 High Density Polyethylene (HDPE) Pipe	2023 Dis	n.a.
3.6.b.3.i. Profile Pipe 150mm	2024 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.
	Dis	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 Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.b Paip Pembetungan (samb.) Sewerage Pipe (cont'd)		RM Per Meter RM Per Metre
3.6.b.3 High Density Polyethylene (HDPE) Pipe 3.6.b.3.ii Solid Pipe 250mm	2023 Dis	108.02
	2024 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
	Dis	108.02
3.6.b.4 Vitrified Clay Pipe 3.6.b.4.i Standard Pipe 225mm	2023 Dis	111.97
	2024 Jan	111.97
	Feb	111.97
	Mac	111.97
	Apr	111.97
	Mei	111.97
	Jun	111.97
	Jul	112.34 ^f
	Ogos	112.34
	Sep	112.34
	Okt	112.34
	Nov	112.34
	Dis	112.34
3.6.b.4.ii Jacking Pipe 225mm	2023 Dis	485.00
	2024 Jan	485.00
	Feb	485.00
	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
	Dis	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 Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.b Paip Pembetulan (samb.) Sewerage Pipe (cont'd)		RM Per Meter RM Per Metre
3.6.b.5 Reinforced Concrete Pipe	2023 Dis	289.00
3.6.b.5.i Without Lining	2024 Jan	289.00
900mm	Feb	289.00
	Mac	289.00
	Apr	289.00
	Mei	289.00
	Jun	289.00
	Jul	319.00
	Ogos	319.00
	Sep	319.00
	Okt	319.00
	Nov	319.00
	Dis	319.00
3.6.b.5.ii With Lining (High Alumina)	2023 Dis	n.a.
900mm	2024 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.
	Dis	n.a.
3.6.b.5.iii With Lining (Sacrificial Lining)	2023 Dis	n.a.
900mm	2024 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.
	Dis	n.a.

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

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

Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
3.6.b Paip Pembetulan Sewerage Pipe		RM Per Meter RM Per Metre
3.6.b.6 ABS Pipe	2023 Dis	53.80
3.6.b.6.i Gravity 110mm	2024 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
	Dis	53.80
3.6.b.6.ii Force Main 225mm	2023 Dis	n.a.
	2024 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.
	Dis	n.a.

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NOTA TEKNIKAL
TECHNICAL NOTES

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1. PENDAHULUAN

Jabatan Perangkaan Malaysia (DOSM) menerbitkan Siaran Khas 1 (Untuk kerja-kerja kejuruteraan awam) Semenanjung Malaysia secara bulanan setiap tahun sejak 1974. Siaran Khas 1 ini memaparkan statistik purata harga bahan-bahan binaan utama yang digunakan dalam aktiviti pembinaan struktur. DOSM bekerjasama dengan Jabatan Kerja Raya dan Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB) dalam menentukan senarai dan spesifikasi bahan binaan.

2. OBJEKTIF

Objektif utama Siaran Khas 1 ini diterbitkan adalah untuk menyediakan statistik harga seunit bahan binaan bagi tujuan pengiraan kadar perubahan harga dan tidak boleh digunakan untuk mewakili kedudukan harga yang sebenar.

3. KAEDAH PENGUMPULAN DATA

Statistik harga purata bagi bahan seperti bar keluli, simen, pasir, batu baur, *fabric reinforcement* dan *guardrail* yang diterbitkan dalam Siaran Khas 1 ini diperoleh dari pungutan harga yang telah dibuat oleh DOSM Negeri di outlet terpilih. Outlet terpilih adalah outlet yang digunakan oleh kontraktor untuk membuat pembelian (*point of purchase*).

Selain pungutan harga oleh DOSM Negeri, terdapat juga data purata bahan binaan yang turut diperoleh atau dibekalkan oleh agensi-agensi lain.

1. INTRODUCTION

The Department of Statistics Malaysia (DOSM) publishes Special Release 1 (For civil engineering works) of Peninsular Malaysia on a monthly basis every year since 1974. This Special Release 1 displays statistics on the average price of the main building materials used in structural construction activities. DOSM works with the Public Works Department and the Malaysian Construction Industry Development Board (CIDB) in determining the list and specification of building materials.

2. OBJECTIVE

The main objective of this Special Release 1 is to provide statistics on the price of a unit of building materials for the purpose of calculating the rate of price change and cannot be used to represent the actual price position.

3. DATA COLLECTION METHODS

The average price statistics for materials such as steel bars, cement, sand, aggregate, fabric reinforcement and guardrail published in this Special Release 1 are obtained from a price collection made by the State DOSM at selected outlets. The selected outlet is the outlet used by the contractor to make a purchase (point of purchase).

In addition to price collection by the State DOSM, there is also average data of building materials that are also obtained or supplied by other agencies.

NOTA TEKNIKAL

4. SKOP DAN LIPUTAN

- i. Harga yang dipungut bagi setiap bahan binaan adalah harga transaksi (harga yang dijual kepada kontraktor), termasuk harga borong dan harga selepas diskaun diberikan; harga termasuk semua jenis cukai, seperti cukai jualan, cukai import; harga pada tempoh hutang yang biasa diberi kepada kontraktor (*credit term*).
- ii. Harga yang direkodkan adalah mengikut spesifikasi yang ditetapkan seperti dalam borang pungutan harga. Penukaran harga ke unit yang diperlukan jika item dijual dalam unit yang berlainan. Harga juga tidak termasuk kos pemasangan.
- iii. Purata harga bagi Bitumen penembusan 60/70 adalah berdasarkan harga purata ex-Kuala Lumpur.
- iv. Harga yang dilaporkan oleh setiap DOSM negeri dikelaskan kepada tiga (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

5. FAKTOR PELARASAN

Faktor pelarasan bagi kategori dan saiz paip yang tidak diterbitkan dalam Siaran Khas 1 ini adalah seperti di **Lampiran A**.

TECHNICAL NOTES

4. SCOPE AND COVERAGE

- i. The price collected for each building material is the transaction price (the price sold to the contractor), including the wholesale price and the price after the discount is given; price includes all types of taxes, such as sales tax, import tax; the price at the debt period that is usually given to the contractor (*credit term*).
- ii. The recorded price is according to the specifications set as in the price collection form. Price conversion to units required if items are sold in different units. The price also does not include installation costs.
- iii. The average price for 60/70 penetration Bitumen is based on the average price ex-Kuala Lumpur.
- iv. The prices reported by each state DOSM classified into three (3) areas 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

5. ADJUSTMENT FACTORS

Adjustment factors for pipe categories and sizes not published in this Special Release 1 are as in **Appendix A**.

NOTA DAN SIMBOL

n.a	= Tidak diperolehi
r	= Kemaskini

NOTES AND SYMBOLS

n.a	= Not available
r	= Revised

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	
100 mm Ø	0.25																																																								
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2000 "	14.74																																																								
2100 "	16.01																																																								
2200 "	17.33																																																								
2. Stainless Steel Pipe <table> <tr><td>13 mm Ø (1/2")</td><td>0.53</td></tr> <tr><td>20 " (3/4")</td><td>0.69</td></tr> <tr><td>25 " (1")</td><td>1.00</td></tr> <tr><td>32 " (1 1/4")</td><td>1.34</td></tr> <tr><td>38 " (1 1/2")</td><td>1.59</td></tr> <tr><td>50 " (2")</td><td>2.14</td></tr> <tr><td>63 " (2 1/2")</td><td>3.42</td></tr> <tr><td>75 " (3")</td><td>4.66</td></tr> <tr><td>100 " (4")</td><td>6.72</td></tr> </table>	13 mm Ø (1/2")	0.53	20 " (3/4")	0.69	25 " (1")	1.00	32 " (1 1/4")	1.34	38 " (1 1/2")	1.59	50 " (2")	2.14	63 " (2 1/2")	3.42	75 " (3")	4.66	100 " (4")	6.72																																							
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Jadual faktor pelarasan bagi paip air dan paip pembetungan (samb.)
Adjustment factor table for water pipe and sewerage pipe (cont'd)

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

Kategori dan saiz paip <i>Category and size of pipe</i>	Faktor pelarasan <i>Adjustment factor</i>
Paip air <i>Water pipe</i>	
ii. Electrofusion Jointing (samb. / cont'd)	
450 mm Ø	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 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> 1. Mild Steel Pipe 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	
2. Ductile Iron Pipe 80 mm Ø 0.35 100 " 0.40 150 " 0.60 200 " 0.80 250 " 1.00 300 " 1.20 350 " 1.40 400 " 1.60 450 " 1.80 500 " 2.00	

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>	
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 125 " 150 " 200 " 250 " 300 " 350 " 400 " 450 " 500 " 550 " 600 " 650 " 700 " 750 " 800 " 850 " 900 " 950 " 1000 " 1200 " 1400 " 1600 " 1800 " 2000 " 2100 " 2200 "	0.20 0.25 0.50 0.65 1.00 1.50 2.00 2.69 3.51 4.48 5.50 6.00 7.50 8.50 10.00 11.75 15.00 16.50 18.00 20.40 24.00 26.00 32.00 36.00 38.00 42.00 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	
100 mm Ø	0.40																																																
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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>	
5. Reinforced Concrete Pipe (RCP)	
i. Without Lining	
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
ii. With Lining (High Alumina)	
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
iii. With Lining (Sacrificial Lining)	
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

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> 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, 2024**

*Scheduled Release Dates for Special Release 1
(For Civil Engineering Works), Peninsular Malaysia, 2024*

Tahun <i>Year</i>	Bulan Rujukan <i>Reference Month</i>	Tahun <i>Year</i>	Tarikh Pengumuman <i>Release Date</i>
2024	Januari <i>January</i>	2024	13 Februari <i>13 February</i>
	Februari <i>February</i>		08 Mac <i>08 March</i>
	Mac <i>March</i>		04 April <i>04 April</i>
	April <i>April</i>		08 Mei <i>08 May</i>
	Mei <i>May</i>		11 Jun <i>11 June</i>
	Jun <i>June</i>		11 Julai <i>11 July</i>
	Julai <i>July</i>		12 Ogos <i>12 August</i>
	Ogos <i>August</i>		11 September <i>11 September</i>
	September <i>September</i>		10 Oktober <i>10 October</i>
	Oktober <i>October</i>		12 November <i>12 November</i>
	November <i>November</i>		10 Disember <i>10 December</i>
	Disember <i>December</i>	2025	9 Januari <i>9 January</i>