



**SIARAN KHAS 1**  
*Special Release*

**SEMENANJUNG MALAYSIA**  
*PENINSULAR MALAYSIA*

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

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**JABATAN PERANGKAAN MALAYSIA**  
*DEPARTMENT OF STATISTICS, MALAYSIA*

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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>
<b>(1) Bar Bulat Keluli Lembut BS-4449</b> <i>Mild Steel Round Bars BS-4449</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>		
10mm (3/8")	2015 Mei	2348.51	2358.90	2707.53
	Jun	2278.07	2355.59	2713.21
	Jul	2246.19	2355.59	2699.96
	Ogos	2160.14	2355.59	2688.21
	Sept	2112.29	2333.79	2674.03
	Okt	2082.58	2299.02	2674.03
	Nov	2033.98	2275.21	2657.21
	Dis	1982.81	2258.94	2623.71
	2016 Jan	1969.16	2240.48	2593.93
	Feb	1980.04	2238.56	2581.34
	Mac	1975.84	2191.40	2581.34
	Apr	2037.80	2213.60	2636.98
	Mei	2109.31	2276.49	2693.56
12mm (1/2")	2015 Mei	2347.92	2380.62	2707.40
	Jun	2273.85	2376.20	2713.09
	Jul	2241.98	2376.20	2699.84
	Ogos	2162.91	2376.20	2688.09
	Sept	2115.06	2353.81	2673.97
	Okt	2085.35	2344.45	2673.96
	Nov	2036.75	2335.08	2657.84
	Dis	1990.58	2335.08	2630.84
	2016 Jan	1960.73	2335.08	2593.93
	Feb	1966.41	2332.81	2581.34
	Mac	1963.79	2273.62	2581.34
	Apr	2025.25	2299.86	2636.98
	Mei	2095.41	2351.10	2693.56
16mm (5/8")	2015 Mei	2248.08	2341.10	2631.99
	Jun	2177.22	2335.80	2608.14
	Jul	2143.01	2335.80	2586.94
	Ogos	2087.46	2335.80	2578.14
	Sept	2028.01	2310.64	2563.09
	Okt	2004.52	2305.42	2541.74
	Nov	1952.89	2300.19	2541.65
	Dis	1903.44	2300.19	2506.15
	2016 Jan	1888.70	2300.19	2494.07
	Feb	1895.60	2297.69	2481.57
	Mac	1904.52	2238.01	2481.57
	Apr	1939.87	2272.33	2546.99
	Mei	2007.93	2333.68	2612.32

**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
<b>(1) Bar Bulat Keluli Lembut BS-4449 (samb.)</b>		<b>RM Per Tan Metrik</b>		
<i>Mild Steel Round Bars BS-4449 (cont'd)</i>		<i>RM Per Metric Ton</i>		
<b>20mm–25mm (3/4"–1")</b>	<b>2015 Mei</b>	2305.58	2373.30	2636.14
	<b>Jun</b>	2242.47	2369.32	2622.23
	<b>Jul</b>	2198.27	2369.32	2622.23
	<b>Ogos</b>	2171.91	2369.32	2622.39
	<b>Sept</b>	2135.41	2343.78	2612.46
	<b>Okt</b>	2108.75	2336.52	2601.94
	<b>Nov</b>	2070.74	2329.26	2601.86
	<b>Dis</b>	2057.12	2329.26	2601.86
	<b>2016 Jan</b>	2056.30	2329.26	2594.36
	<b>Feb</b>	2063.10	2326.83	2583.28
	<b>Mac</b>	2045.48	2296.45	2583.78
	<b>Apr</b>	2069.43	2327.38	2614.94
	<b>Mei</b>	2135.73	2347.10	2650.72
	<b>32mm (1 1/4")</b>	<b>2015 Mei</b>	2242.82	2453.07
<b>Jun</b>		2132.23	2456.69	2553.92
<b>Jul</b>		2066.87	2456.69	2553.92
<b>Ogos</b>		2045.53	2456.69	2553.92
<b>Sept</b>		2043.77	2436.50	2531.84
<b>Okt</b>		2028.63	2429.97	2508.08
<b>Nov</b>		1988.50	2423.44	2507.92
<b>Dis</b>		1952.67	2423.44	2507.92
<b>2016 Jan</b>		1963.73	2423.44	2491.25
<b>Feb</b>		1976.10	2420.31	2466.25
<b>Mac</b>		1990.37	2384.65	2466.75
<b>Apr</b>		2038.07	2427.55	2466.75
<b>Mei</b>		2088.42	2427.55	2466.75
<b>(2) Mycon 60</b>				
<i>High Tensile Deformed Bars</i>				
<b>10mm (3/8")</b>	<b>2015 Mei</b>	2323.75	2398.42	2685.06
	<b>Jun</b>	2251.28	2395.92	2690.75
	<b>Jul</b>	2217.23	2395.92	2677.50
	<b>Ogos</b>	2164.29	2387.97	2665.75
	<b>Sept</b>	2109.84	2369.86	2651.57
	<b>Okt</b>	2078.69	2335.00	2651.56
	<b>Nov</b>	2027.31	2318.67	2635.38
	<b>Dis</b>	1982.72	2292.64	2608.38
	<b>2016 Jan</b>	1963.34	2292.64	2584.06
	<b>Feb</b>	1975.21	2290.14	2584.06
	<b>Mac</b>	1984.13	2266.31	2584.06
	<b>Apr</b>	2022.42	2295.48	2639.91
	<b>Mei</b>	2083.71	2295.48	2696.29

**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>	
<b>(2) Mycon 60 (Samb.)</b>		<b>RM Per Tan Metrik</b>			
<i>High Tensile Deformed Bars (Cont'd)</i>		<i>RM Per Metric Ton</i>			
<b>12mm (1/2")</b>	<b>2015 Mei</b>	2330.07	2414.96	2685.06	
	<b>Jun</b>	2254.06	2392.41	2690.75	
	<b>Jul</b>	2227.08	2392.41	2677.50	
	<b>Ogos</b>	2167.07	2392.41	2662.63	
	<b>Sept</b>	2112.62	2384.08	2648.44	
	<b>Okt</b>	2081.47	2353.68	2648.44	
	<b>Nov</b>	2030.08	2342.65	2635.38	
	<b>Dis</b>	1982.72	2316.62	2608.38	
	<b>2016 Jan</b>	1977.23	2316.62	2584.06	
	<b>Feb</b>	1983.54	2303.45	2584.06	
	<b>Mac</b>	1992.47	2257.56	2584.06	
	<b>Apr</b>	2030.76	2289.97	2639.91	
	<b>Mei</b>	2089.26	2289.97	2696.29	
	<b>16mm–25mm (5/8"–1")</b>	<b>2015 Mei</b>	2249.34	2303.12	2624.44
		<b>Jun</b>	2170.42	2300.34	2611.85
<b>Jul</b>		2125.17	2300.34	2602.38	
<b>Ogos</b>		2081.24	2300.34	2591.79	
<b>Sept</b>		2011.81	2280.40	2575.87	
<b>Okt</b>		1974.23	2244.50	2561.66	
<b>Nov</b>		1917.66	2227.81	2553.39	
<b>Dis</b>		1875.09	2201.93	2544.51	
<b>2016 Jan</b>		1866.69	2201.93	2527.18	
<b>Feb</b>		1875.72	2199.15	2514.89	
<b>Mac</b>		1884.82	2176.68	2515.06	
<b>Apr</b>		1915.46	2199.05	2561.01	
<b>Mei</b>		1970.65	2199.05	2631.08	
<b>32mm (1 1/4")</b>		<b>2015 Mei</b>	2233.37	2316.04	2607.83
		<b>Jun</b>	2149.43	2289.79	2607.83
	<b>Jul</b>	2071.70	2289.79	2607.83	
	<b>Ogos</b>	2036.87	2289.79	2607.83	
	<b>Sept</b>	1978.47	2276.72	2581.34	
	<b>Okt</b>	1936.00	2248.43	2554.83	
	<b>Nov</b>	1878.17	2231.02	2535.83	
	<b>Dis</b>	1838.17	2205.14	2535.83	
	<b>2016 Jan</b>	1839.13	2205.14	2527.50	
	<b>Feb</b>	1851.50	2202.01	2502.50	
	<b>Mac</b>	1861.60	2169.48	2502.50	
	<b>Apr</b>	1909.30	2196.75	2502.50	
	<b>Mei</b>	1959.65	2196.75	2502.50	

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

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Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>
<b>(3) Simen</b> <i>Cement</i>		<b>RM Sekarung 50 Kg</b> <i>RM Per 50 Kg Bag</i>		
<b>Portland Biasa</b>	<b>2015 Mei</b>	19.04	19.71	20.40
<b>BS 12</b>	<b>Jun</b>	18.99	19.68	20.60
<i>Ordinary Portland</i>	<b>Jul</b>	19.12	19.69	21.30
<i>BS 12</i>	<b>Ogos</b>	19.12	19.69	21.25
	<b>Sept</b>	18.97	19.54	21.09
	<b>Okt</b>	18.88	19.53	21.11
	<b>Nov</b>	19.01	19.48	21.06
	<b>Dis</b>	18.86	19.48	21.06
	<b>2016 Jan</b>	18.86	19.46	21.01
	<b>Feb</b>	18.99	19.46	20.98
	<b>Mac</b>	18.91	19.40	20.99
	<b>Apr</b>	18.75	19.35	20.95
	<b>Mei</b>	18.61	19.28	20.79

**Jadual 2: Harga unit purata bagi bitumen, minyak bahan api dan diesel***Table 2: Average unit prices for bitumen, fuel oil and diesel*

<b>Item</b>	<b>Tempoh</b> <i>Period</i>	<b>Semenanjung Malaysia</b> <i>Peninsular Malaysia</i>
<b>(1) Minyak Bahan Api</b> <i>Fuel Oil</i>		<b>RM Seliter</b> <i>RM Per Litre</i>
<b>Sederhana</b> <i>Medium</i>	<b>2015 Mei</b>	2.17
	<b>Jun</b>	2.17
	<b>Jul</b>	2.17
	<b>Ogos</b>	2.17
	<b>Sept</b>	2.17
	<b>Okt</b>	2.17
	<b>Nov</b>	2.17
	<b>Dis</b>	2.17
	<b>2016 Jan</b>	2.17
	<b>Feb</b>	2.17
	<b>Mac</b>	2.17
	<b>Apr</b>	2.17
	<b>Mei</b>	2.17
<b>(2) Bitumen Penembusan 80/100</b> <i>Bitumen 80/100 Penetration</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>
	<b>2015 Mei</b>	1650.00
	<b>Jun</b>	1650.00
	<b>Jul</b>	1700.00
	<b>Ogos</b>	1700.00
	<b>Sept</b>	1650.00
	<b>Okt</b>	1690.00
	<b>Nov</b>	1690.00
	<b>Dis</b>	1690.00
	<b>2016 Jan</b>	1690.00
	<b>Feb</b>	1750.00
	<b>Mac</b>	1750.00
	<b>Apr</b>	1750.00
	<b>Mei</b>	1750.00

**Harga bitumen penembusan 80/100 adalah berdasarkan harga purata ex-Kuala Lumpur.***The price for bitumen 80/100 penetration is based on average ex-Kuala Lumpur.*

**Jadual 2: Harga unit purata bagi bitumen, minyak bahan api dan diesel (samb.)***Table 2: Average unit prices for bitumen, fuel oil and diesel (cont'd)*

Item	Tempoh <i>Period</i>	Semenanjung Malaysia <i>Peninsular Malaysia</i>	
		Runcit* <i>Retail</i>	Sebenar <i>Actual</i>
<b>(3) Minyak Gas Automotif</b> <i>Automotive Gas Oil</i>			<b>RM Seliter</b> <i>RM Per Litre</i>
<b>Diesel</b>	<b>2015 Jan</b>	1.930	1.930
<i>Diesel</i>	<b>Feb</b>	1.700	1.700
	<b>Mac</b>	1.950	1.950
	<b>Apr</b>	1.950	1.950
	<b>Mei</b>	1.950	1.950
	<b>Jun</b>	2.050	2.050
	<b>Jul</b>	2.050	2.050
	<b>Ogos</b>	1.950	1.950
	<b>Sept</b>	1.800	1.800
	<b>Okt</b>	1.900	1.900
	<b>Nov</b>	1.900	1.900
	<b>Dis</b>	1.900	1.900
	<b>2016 Jan</b>	1.600	1.600
	<b>Feb</b>	1.350	1.350
	<b>Mac</b>	1.350	1.350
	<b>Apr</b>	1.550	1.550
	<b>Mei</b>	1.550	1.550
	<b>Jun</b>		
	<b>Jul</b>		
	<b>Ogos</b>		
	<b>Sept</b>		
	<b>Okt</b>		
	<b>Nov</b>		
	<b>Dis</b>		

**Harga diesel adalah ex-Kuala Lumpur.***The price for diesel is ex-Kuala Lumpur.***\* Harga runcit ialah harga selepas ditolak subsidi kerajaan.***Retail price is the price less government subsidy.*

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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>			
		Utara <i>North</i>	Tengah <i>Central</i>	Timur <i>East</i>	
<b>(1) Pasir</b> <i>Sand</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>			
Pasir Sungai <i>River Sand</i>	2015 Mei	50.23	46.87	26.55	
	Jun	50.64	47.44	27.02	
	Jul	51.64	48.02	27.48	
	Ogos	52.38	48.02	27.48	
	Sept	52.73	48.02	27.48	
	Okt	53.03	48.02	27.48	
	Nov	52.27	48.02	27.05	
	Dis	52.27	48.35	27.05	
	2016 Jan	52.19	48.74	27.07	
	Feb	52.19	49.22	27.07	
	Mac	52.19	49.22	27.07	
	Apr	52.19	48.69	27.07	
	Mei	52.19	48.69	27.03	
	Pasir Lombong <i>Mining Sand</i>	2015 Mei	32.74	48.98	29.25
		Jun	33.16	49.31	29.25
Jul		33.16	49.65	29.25	
Ogos		33.16	49.57	29.25	
Sept		33.16	49.57	29.25	
Okt		33.16	49.57	n.a	
Nov		33.16	49.57	n.a	
Dis		33.16	49.03	n.a	
2016 Jan		33.16	49.31	n.a	
Feb		33.16	49.58	n.a	
Mac		33.16	49.48	n.a	
Apr		33.16	49.48	n.a	
Mei		33.16	49.48	n.a	
<b>(2) Batu Baur</b> <i>Aggregates</i>					
Granite 10mm (3/8")		2015 Mei	33.09	31.24	35.62
	Jun	33.09	31.29	35.62	
	Jul	32.66	31.41	35.62	
	Ogos	32.59	31.53	35.62	
	Sept	32.59	31.53	35.62	
	Okt	31.36	32.44	35.62	
	Nov	31.36	32.44	35.62	
	Dis	31.06	32.31	35.62	
	2016 Jan	30.90	32.31	33.73	
	Feb	30.90	32.31	33.73	
	Mac	30.90	32.25	33.73	
	Apr	30.90	32.25	33.73	
	Mei	30.90	32.25	33.73	

Harga bagi pasir, batu baur dan premix adalah termasuk kos pengangkutan bagi jarak 30km dari outlet.  
*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 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>	
<b>(2) Batu Baur (Samb.)</b> <i>Aggregates (Cont'd)</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>			
Granite 20mm (3/4")	2015 Mei	37.53	31.49	33.56	
	Jun	37.41	31.93	33.56	
	Jul	37.26	32.28	34.06	
	Ogos	37.26	32.26	34.56	
	Sept	37.11	32.18	34.56	
	Okt	37.11	33.44	34.76	
	Nov	37.19	33.38	34.76	
	Dis	37.13	33.25	34.76	
	2016 Jan	37.13	33.33	34.67	
	Feb	37.13	33.57	34.58	
	Mac	37.13	33.73	34.02	
	Apr	37.13	34.12	34.02	
	Mei	37.13	34.12	34.02	
	Granite 40mm (1 1/2")	2015 Mei	28.36	31.04	29.68
		Jun	28.36	31.73	29.68
Jul		28.36	32.32	29.68	
Ogos		28.36	32.32	29.68	
Sept		28.36	32.32	29.68	
Okt		30.21	32.04	29.68	
Nov		28.97	32.04	29.68	
Dis		28.97	32.04	29.68	
2016 Jan		28.97	32.04	29.68	
Feb		28.97	32.04	29.68	
Mac		28.97	32.04	29.68	
Apr		28.97	32.04	29.68	
Mei		28.97	32.04	29.68	
<b>Crushed Aggregate (Crusher Run)</b> <i>Crushed Aggregate (Crusher Run)</i>					
Crusher Run		2015 Mei	21.92	25.05	21.83
	Jun	21.92	24.80	21.83	
	Jul	21.92	24.87	21.83	
	Ogos	21.76	24.69	21.83	
	Sept	21.76	24.69	21.83	
	Okt	20.63	24.87	21.83	
	Nov	20.71	24.87	21.83	
	Dis	20.63	24.87	21.83	
	2016 Jan	20.63	24.87	21.47	
	Feb	20.63	24.87	21.47	
	Mac	20.63	24.79	21.47	
	Apr	20.63	24.79	21.47	
	Mei	20.63	24.79	21.47	

**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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Asphaltic Concrete</b> <i>Premix Asphaltic Concrete</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>		
<b>AC 10 (Wearing Course)</b>	<b>2015 Mei</b>	181.97	202.49	220.26
	<b>Jun</b>	181.97	204.28	220.26
	<b>Jul</b>	181.97	205.50	220.26
	<b>Ogos</b>	181.97	205.50	220.26
	<b>Sept</b>	181.97	205.50	220.26
	<b>Okt</b>	180.20	203.38	256.52
	<b>Nov</b>	180.20	203.38	256.52
	<b>Dis</b>	180.20	202.42	256.52
	<b>2016 Jan</b>	180.20	202.42	256.52
	<b>Feb</b>	180.20	200.42	256.52
	<b>Mac</b>	180.20	196.72	256.52
	<b>Apr</b>	180.20	193.13	256.52
	<b>Mei</b>	180.20	193.13	256.52
<b>AC 14 (Wearing Course)</b>	<b>2015 Mei</b>	187.44	196.52	202.07
	<b>Jun</b>	187.44	196.60	198.13
	<b>Jul</b>	185.85	197.61	198.13
	<b>Ogos</b>	184.12	197.61	197.38
	<b>Sept</b>	184.12	197.61	197.38
	<b>Okt</b>	183.24	196.82	197.38
	<b>Nov</b>	183.24	196.82	197.38
	<b>Dis</b>	183.24	195.95	197.38
	<b>2016 Jan</b>	183.24	195.95	196.32
	<b>Feb</b>	183.24	194.13	196.32
	<b>Mac</b>	174.96	189.41	196.32
	<b>Apr</b>	174.37	187.73	190.11
	<b>Mei</b>	174.37	187.73	190.11
<b>AC 28 (Binder Course)</b>	<b>2015 Mei</b>	185.85	199.76	197.72
	<b>Jun</b>	185.85	198.50	194.03
	<b>Jul</b>	184.26	199.58	194.78
	<b>Ogos</b>	182.36	199.58	194.03
	<b>Sept</b>	182.36	199.58	194.03
	<b>Okt</b>	181.47	198.39	194.03
	<b>Nov</b>	181.47	198.39	194.03
	<b>Dis</b>	181.47	197.99	194.03
	<b>2016 Jan</b>	181.47	197.99	192.97
	<b>Feb</b>	181.47	195.99	192.97
	<b>Mac</b>	172.90	191.39	192.97
	<b>Apr</b>	172.43	189.15	186.76
	<b>Mei</b>	172.43	189.15	186.76

**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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Asphaltic Concrete (samb.)</b> <i>Premix Asphaltic Concrete (cont'd)</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>		
<b>ACW 20 (Wearing Course)</b>	<b>2015 Mei</b>	186.91	197.81	202.73
	<b>Jun</b>	186.91	197.90	204.14
	<b>Jul</b>	185.32	198.99	205.14
	<b>Ogos</b>	183.59	198.99	202.37
	<b>Sept</b>	183.59	198.99	202.37
	<b>Okt</b>	182.71	198.27	213.06
	<b>Nov</b>	182.71	198.27	213.06
	<b>Dis</b>	182.71	197.31	213.06
	<b>2016 Jan</b>	182.71	197.31	213.59
	<b>Feb</b>	182.71	195.31	213.59
	<b>Mac</b>	176.96	189.21	213.59
	<b>Apr</b>	175.61	187.87	198.51
	<b>Mei</b>	175.61	187.87	198.51

**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>
<b>(3) Premix Bituminous Macadam</b> <i>Premix Bituminous Macadam</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>		
<b>BMR40 (Bound Roadbase)</b>	<b>2015 Mei</b>	178.08	196.78	139.92
	<b>Jun</b>	178.08	196.78	139.92
	<b>Jul</b>	178.08	196.78	139.92
	<b>Ogos</b>	178.08	196.78	139.92
	<b>Sept</b>	178.08	196.78	139.92
	<b>Okt</b>	172.78	185.43	139.92
	<b>Nov</b>	172.78	185.43	139.92
	<b>Dis</b>	172.78	184.49	139.92
	<b>2016 Jan</b>	172.78	184.49	139.92
	<b>Feb</b>	172.78	184.49	139.92
	<b>Mac</b>	172.78	183.87	139.92
	<b>Apr</b>	172.78	183.87	139.92
	<b>Mei</b>	172.78	183.87	139.92
<b>BMR28 (Bound Roadbase)</b>	<b>2015 Mei</b>	178.08	192.02	153.00
	<b>Jun</b>	178.08	192.02	153.00
	<b>Jul</b>	178.08	192.02	153.00
	<b>Ogos</b>	178.08	192.02	153.00
	<b>Sept</b>	178.08	192.02	153.00
	<b>Okt</b>	172.78	188.04	153.00
	<b>Nov</b>	172.78	188.04	153.00
	<b>Dis</b>	172.78	187.62	153.00
	<b>2016 Jan</b>	172.78	187.62	153.00
	<b>Feb</b>	172.78	187.62	153.00
	<b>Mac</b>	172.78	183.74	153.00
	<b>Apr</b>	172.78	183.74	153.00
	<b>Mei</b>	172.78	183.74	153.00
<b>BML10 (Levelling Course)</b>	<b>2015 Mei</b>	180.20	204.09	166.03
	<b>Jun</b>	180.20	204.09	164.03
	<b>Jul</b>	180.20	204.09	167.30
	<b>Ogos</b>	180.20	204.09	165.30
	<b>Sept</b>	180.20	204.09	164.30
	<b>Okt</b>	174.90	194.96	164.30
	<b>Nov</b>	174.90	194.96	164.30
	<b>Dis</b>	174.90	195.14	164.30
	<b>2016 Jan</b>	174.90	195.14	160.06
	<b>Feb</b>	174.90	195.14	160.06
	<b>Mac</b>	174.90	191.36	160.06
	<b>Apr</b>	174.90	191.36	135.20
	<b>Mei</b>	174.90	191.36	135.20

**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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Bituminous Macadam (samb.)</b> <i>Premix Bituminous Macadam (cont'd)</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>		
<b>BMB28 (Binder Course)</b>	<b>2015 Mei</b>	182.03	199.28	160.85
	<b>Jun</b>	182.03	199.28	157.94
	<b>Jul</b>	182.03	199.28	160.94
	<b>Ogos</b>	182.03	199.28	155.00
	<b>Sept</b>	182.03	199.28	155.00
	<b>Okt</b>	172.78	195.30	155.00
	<b>Nov</b>	172.78	195.30	155.00
	<b>Dis</b>	172.78	194.88	155.00
	<b>2016 Jan</b>	172.78	194.88	153.70
	<b>Feb</b>	172.78	194.88	153.70
	<b>Mac</b>	172.78	191.13	153.70
	<b>Apr</b>	172.78	191.13	128.84
	<b>Mei</b>	172.78	191.13	128.84
<b>BMB20 (Binder Course)</b>	<b>2015 Mei</b>	178.08	192.68	191.80
	<b>Jun</b>	178.08	192.68	192.65
	<b>Jul</b>	178.08	192.68	193.25
	<b>Ogos</b>	178.08	192.68	192.65
	<b>Sept</b>	178.08	192.68	192.65
	<b>Okt</b>	172.78	189.15	201.75
	<b>Nov</b>	172.78	189.15	201.75
	<b>Dis</b>	172.78	188.77	201.75
	<b>2016 Jan</b>	172.78	188.77	200.34
	<b>Feb</b>	172.78	188.77	200.34
	<b>Mac</b>	172.78	183.77	200.34
	<b>Apr</b>	172.78	183.77	192.05
	<b>Mei</b>	172.78	183.77	191.91
<b>BMW14 (Wearing Course)</b>	<b>2015 Mei</b>	180.20	194.03	204.23
	<b>Jun</b>	180.20	194.03	205.64
	<b>Jul</b>	180.20	194.03	206.64
	<b>Ogos</b>	180.20	194.03	205.64
	<b>Sept</b>	180.20	193.03	205.64
	<b>Okt</b>	174.90	189.85	205.64
	<b>Nov</b>	174.90	191.85	205.64
	<b>Dis</b>	174.90	192.01	205.64
	<b>2016 Jan</b>	174.90	192.01	204.23
	<b>Feb</b>	174.90	192.01	204.23
	<b>Mac</b>	174.90	184.01	204.23
	<b>Apr</b>	174.90	184.01	195.94
	<b>Mei</b>	174.90	184.01	195.94

**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>
<b>(3) Premix Bituminous Macadam (samb.)</b> <i>Premix Bituminous Macadam (cont'd)</i>		<b>RM Per Tan Metrik</b> <i>RM Per Metric Ton</i>		
<b>BMW20 (Wearing Course)</b>	<b>2015 Mei</b>	180.20	193.72	207.96
	<b>Jun</b>	180.20	193.72	207.96
	<b>Jul</b>	180.20	193.72	207.96
	<b>Ogos</b>	180.20	193.72	207.96
	<b>Sept</b>	180.20	192.72	207.96
	<b>Okt</b>	174.90	189.54	245.92
	<b>Nov</b>	174.90	191.54	245.92
	<b>Dis</b>	174.90	191.70	245.92
	<b>2016 Jan</b>	174.90	191.70	245.92
	<b>Feb</b>	174.90	191.70	245.92
	<b>Mac</b>	174.90	183.70	245.92
	<b>Apr</b>	174.90	183.70	245.92
	<b>Mei</b>	174.90	183.70	245.92

**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>
<b>(4) Fabric Reinforcement</b> <i>Fabric Reinforcement</i>			<b>RM Per Kg</b> <i>RM Per Kg</i>	
<b>A4, MS145</b>	<b>2015 Mei</b>	2.30	3.03	3.73
	<b>Jun</b>	2.30	3.03	3.73
	<b>Jul</b>	2.30	3.03	3.73
	<b>Ogos</b>	2.30	3.03	3.73
	<b>Sept</b>	2.30	3.03	3.73
	<b>Okt</b>	2.30	2.86	3.73
	<b>Nov</b>	2.30	2.86	3.73
	<b>Dis</b>	2.30	2.84	3.52
	<b>2016 Jan</b>	2.30	2.84	3.43
	<b>Feb</b>	2.30	2.84	3.43
	<b>Mac</b>	2.30	2.84	3.43
	<b>Apr</b>	2.34	2.84	3.43
	<b>Mei</b>	2.64	2.84	3.43
<b>A5, MS145</b>	<b>2015 Mei</b>	2.29	2.99	3.70
	<b>Jun</b>	2.29	2.99	3.70
	<b>Jul</b>	2.29	2.99	3.70
	<b>Ogos</b>	2.29	2.99	3.70
	<b>Sept</b>	2.29	2.99	3.70
	<b>Okt</b>	2.29	2.83	3.70
	<b>Nov</b>	2.29	2.83	3.70
	<b>Dis</b>	2.29	2.81	3.49
	<b>2016 Jan</b>	2.29	2.81	3.40
	<b>Feb</b>	2.29	2.81	3.40
	<b>Mac</b>	2.29	2.81	3.40
	<b>Apr</b>	2.32	2.81	3.40
	<b>Mei</b>	2.62	2.81	3.40
<b>A6, MS145</b>	<b>2015 Mei</b>	2.05	2.66	3.32
	<b>Jun</b>	2.05	2.66	3.32
	<b>Jul</b>	2.05	2.66	3.32
	<b>Ogos</b>	2.05	2.66	3.32
	<b>Sept</b>	2.05	2.66	3.32
	<b>Okt</b>	2.05	2.53	3.32
	<b>Nov</b>	2.05	2.53	3.32
	<b>Dis</b>	2.05	2.52	3.13
	<b>2016 Jan</b>	2.05	2.52	3.05
	<b>Feb</b>	2.05	2.52	3.05
	<b>Mac</b>	2.05	2.52	3.05
	<b>Apr</b>	2.08	2.52	3.05
	<b>Mei</b>	2.35	2.52	3.05

**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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(4) Fabric Reinforcement (samb.)</b>		<b>RM Per Kg</b>		
<i>Fabric Reinforcement (cont'd)</i>		<i>RM Per Kg</i>		
<b>A7, MS145</b>	<b>2015 Mei</b>	2.05	2.65	3.31
	<b>Jun</b>	2.05	2.65	3.31
	<b>Jul</b>	2.05	2.65	3.31
	<b>Ogos</b>	2.05	2.65	3.31
	<b>Sept</b>	2.05	2.65	3.31
	<b>Okt</b>	2.05	2.53	3.31
	<b>Nov</b>	2.05	2.53	3.31
	<b>Dis</b>	2.05	2.52	3.13
	<b>2016 Jan</b>	2.05	2.52	3.05
	<b>Feb</b>	2.05	2.52	3.05
	<b>Mac</b>	2.05	2.52	3.05
	<b>Apr</b>	2.08	2.52	3.05
	<b>Mei</b>	2.35	2.52	3.05
	<b>A8, MS145</b>	<b>2015 Mei</b>	2.05	2.66
<b>Jun</b>		2.05	2.66	3.32
<b>Jul</b>		2.05	2.66	3.32
<b>Ogos</b>		2.05	2.66	3.32
<b>Sept</b>		2.05	2.66	3.32
<b>Okt</b>		2.05	2.54	3.32
<b>Nov</b>		2.05	2.54	3.32
<b>Dis</b>		2.05	2.53	3.13
<b>2016 Jan</b>		2.05	2.53	3.06
<b>Feb</b>		2.05	2.53	3.06
<b>Mac</b>		2.05	2.53	3.06
<b>Apr</b>		2.08	2.53	3.06
<b>Mei</b>		2.36	2.53	3.06
<b>A9, MS145</b>		<b>2015 Mei</b>	2.05	2.65
	<b>Jun</b>	2.05	2.65	3.31
	<b>Jul</b>	2.05	2.65	3.31
	<b>Ogos</b>	2.05	2.65	3.31
	<b>Sept</b>	2.05	2.65	3.31
	<b>Okt</b>	2.05	2.53	3.31
	<b>Nov</b>	2.05	2.53	3.31
	<b>Dis</b>	2.05	2.52	3.13
	<b>2016 Jan</b>	2.05	2.52	3.05
	<b>Feb</b>	2.05	2.52	3.05
	<b>Mac</b>	2.05	2.52	3.05
	<b>Apr</b>	2.08	2.52	3.05
	<b>Mei</b>	2.35	2.52	3.05

**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>
<b>(4) Fabric Reinforcement (samb.)</b> <i>Fabric Reinforcement (cont'd)</i>		<b>RM Per Kg</b> <i>RM Per Kg</i>		
<b>A10, MS145</b>	<b>2015 Mei</b>	2.09	2.57	3.31
	<b>Jun</b>	2.09	2.57	3.31
	<b>Jul</b>	2.09	2.57	3.31
	<b>Ogos</b>	2.09	2.57	3.31
	<b>Sept</b>	2.09	2.57	3.31
	<b>Okt</b>	2.09	2.45	3.31
	<b>Nov</b>	2.09	2.45	3.31
	<b>Dis</b>	2.09	2.44	3.13
	<b>2016 Jan</b>	2.09	2.44	3.05
	<b>Feb</b>	2.09	2.44	3.05
	<b>Mac</b>	2.09	2.44	3.05
	<b>Apr</b>	2.16	2.44	3.05
	<b>Mei</b>	2.70	2.44	3.05
	<b>B5, MS145</b>	<b>2015 Mei</b>	2.33	2.98
<b>Jun</b>		2.33	2.98	3.68
<b>Jul</b>		2.33	2.98	3.68
<b>Ogos</b>		2.33	2.98	3.68
<b>Sept</b>		2.33	2.98	3.68
<b>Okt</b>		2.33	2.82	3.68
<b>Nov</b>		2.33	2.82	3.68
<b>Dis</b>		2.33	2.82	3.48
<b>2016 Jan</b>		2.33	2.82	3.39
<b>Feb</b>		2.33	2.82	3.39
<b>Mac</b>		2.33	2.82	3.39
<b>Apr</b>		2.40	2.82	3.39
<b>Mei</b>		3.00	2.82	3.39
<b>B6, MS145</b>		<b>2015 Mei</b>	2.09	2.65
	<b>Jun</b>	2.09	2.65	3.32
	<b>Jul</b>	2.09	2.65	3.32
	<b>Ogos</b>	2.09	2.65	3.32
	<b>Sept</b>	2.09	2.65	3.32
	<b>Okt</b>	2.09	2.51	3.32
	<b>Nov</b>	2.09	2.51	3.32
	<b>Dis</b>	2.09	2.51	3.13
	<b>2016 Jan</b>	2.09	2.51	3.05
	<b>Feb</b>	2.09	2.51	3.05
	<b>Mac</b>	2.09	2.51	3.05
	<b>Apr</b>	2.16	2.51	3.05
	<b>Mei</b>	2.70	2.51	3.05

**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 Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(4) Fabric Reinforcement (samb.)</b>		<b>RM Per Kg</b>		
<i>Fabric Reinforcement (cont'd)</i>		<i>RM Per Kg</i>		
<b>B7, MS145</b>	<b>2015 Mei</b>	2.09	2.68	3.31
	<b>Jun</b>	2.09	2.68	3.31
	<b>Jul</b>	2.09	2.68	3.31
	<b>Ogos</b>	2.09	2.68	3.31
	<b>Sept</b>	2.09	2.68	3.31
	<b>Okt</b>	2.09	2.54	3.31
	<b>Nov</b>	2.09	2.54	3.31
	<b>Dis</b>	2.09	2.54	3.13
	<b>2016 Jan</b>	2.09	2.54	3.05
	<b>Feb</b>	2.09	2.54	3.05
	<b>Mac</b>	2.09	2.54	3.05
	<b>Apr</b>	2.16	2.54	3.05
	<b>Mei</b>	2.70	2.54	3.05
	<b>B8, MS145</b>	<b>2015 Mei</b>	2.10	2.69
<b>Jun</b>		2.10	2.69	3.32
<b>Jul</b>		2.10	2.69	3.32
<b>Ogos</b>		2.10	2.69	3.32
<b>Sept</b>		2.10	2.69	3.32
<b>Okt</b>		2.10	2.54	3.32
<b>Nov</b>		2.10	2.54	3.32
<b>Dis</b>		2.10	2.54	3.13
<b>2016 Jan</b>		2.10	2.54	3.06
<b>Feb</b>		2.10	2.54	3.06
<b>Mac</b>		2.10	2.54	3.06
<b>Apr</b>		2.16	2.54	3.06
<b>Mei</b>		2.70	2.54	3.06
<b>B9, MS145</b>		<b>2015 Mei</b>	2.09	2.69
	<b>Jun</b>	2.09	2.69	3.32
	<b>Jul</b>	2.09	2.69	3.32
	<b>Ogos</b>	2.09	2.69	3.32
	<b>Sept</b>	2.09	2.69	3.32
	<b>Okt</b>	2.09	2.54	3.32
	<b>Nov</b>	2.09	2.54	3.32
	<b>Dis</b>	2.09	2.54	3.13
	<b>2016 Jan</b>	2.09	2.54	3.05
	<b>Feb</b>	2.09	2.54	3.05
	<b>Mac</b>	2.09	2.54	3.05
	<b>Apr</b>	2.16	2.54	3.05
	<b>Mei</b>	2.70	2.54	3.05

**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>
<b>(4) Fabric Reinforcement (samb.)</b> <i>Fabric Reinforcement (cont'd)</i>		<b>RM Per Kg</b> <i>RM Per Kg</i>		
<b>B10, MS145</b>	2015 Mei	2.09	2.68	3.31
	Jun	2.09	2.68	3.31
	Jul	2.09	2.68	3.31
	Ogos	2.09	2.68	3.31
	Sept	2.09	2.68	3.31
	Okt	2.09	2.54	3.31
	Nov	2.09	2.54	3.31
	Dis	2.09	2.54	3.12
	2016 Jan	2.09	2.54	3.05
	Feb	2.09	2.54	3.05
	Mac	2.09	2.54	3.05
	Apr	2.16	2.54	3.05
	Mei	2.70	2.54	3.05
	<b>B12, MS145</b>	2015 Mei	2.32	2.94
Jun		2.32	2.94	3.66
Jul		2.32	2.94	3.66
Ogos		2.32	2.94	3.66
Sept		2.32	2.94	3.66
Okt		2.32	2.78	3.66
Nov		2.32	2.78	3.66
Dis		2.32	2.78	3.46
2016 Jan		2.32	2.78	3.38
Feb		2.32	2.78	3.38
Mac		2.32	2.78	3.38
Apr		2.39	2.78	3.38
Mei		2.99	2.78	3.38
<b>C5, MS145</b>		2015 Mei	2.33	2.88
	Jun	2.33	2.88	3.69
	Jul	2.33	2.88	3.69
	Ogos	2.33	2.88	3.69
	Sept	2.33	2.88	3.69
	Okt	2.33	2.88	3.69
	Nov	2.33	2.88	3.69
	Dis	2.33	2.88	3.48
	2016 Jan	2.33	2.88	3.40
	Feb	2.33	2.88	3.40
	Mac	2.33	2.88	3.40
	Apr	2.40	2.88	3.40
	Mei	3.01	2.88	3.40

**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>
<b>(4) Fabric Reinforcement (samb.)</b> <i>Fabric Reinforcement (cont'd)</i>		<b>RM Per Kg</b> <i>RM Per Kg</i>		
<b>C6, MS145</b>	<b>2015 Mei</b>	2.33	2.88	3.68
	<b>Jun</b>	2.33	2.88	3.68
	<b>Jul</b>	2.33	2.88	3.68
	<b>Ogos</b>	2.33	2.88	3.68
	<b>Sept</b>	2.33	2.88	3.68
	<b>Okt</b>	2.33	2.86	3.68
	<b>Nov</b>	2.33	2.86	3.68
	<b>Dis</b>	2.33	2.86	3.48
	<b>2016 Jan</b>	2.33	2.86	3.39
	<b>Feb</b>	2.33	2.86	3.39
	<b>Mac</b>	2.33	2.86	3.39
	<b>Apr</b>	2.40	2.86	3.39
	<b>Mei</b>	3.00	2.86	3.39
	<b>C7, MS145</b>	<b>2015 Mei</b>	2.33	2.98
<b>Jun</b>		2.33	2.98	3.68
<b>Jul</b>		2.33	2.98	3.68
<b>Ogos</b>		2.33	2.98	3.68
<b>Sept</b>		2.33	2.98	3.68
<b>Okt</b>		2.33	2.98	3.68
<b>Nov</b>		2.33	2.98	3.68
<b>Dis</b>		2.33	2.98	3.47
<b>2016 Jan</b>		2.33	2.98	3.39
<b>Feb</b>		2.33	2.98	3.39
<b>Mac</b>		2.33	2.98	3.39
<b>Apr</b>		2.40	2.98	3.39
<b>Mei</b>		3.00	2.98	3.39
<b>C8, MS145</b>		<b>2015 Mei</b>	2.32	3.05
	<b>Jun</b>	2.32	3.05	3.68
	<b>Jul</b>	2.32	3.05	3.68
	<b>Ogos</b>	2.32	3.05	3.68
	<b>Sept</b>	2.32	3.05	3.68
	<b>Okt</b>	2.32	3.05	3.68
	<b>Nov</b>	2.32	3.05	3.68
	<b>Dis</b>	2.32	3.05	3.47
	<b>2016 Jan</b>	2.32	3.05	3.38
	<b>Feb</b>	2.32	3.05	3.38
	<b>Mac</b>	2.32	3.05	3.38
	<b>Apr</b>	2.40	3.05	3.38
	<b>Mei</b>	3.00	3.05	3.38

**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>
<b>(4) Fabric Reinforcement (samb.)</b> <i>Fabric Reinforcement (cont'd)</i>		<b>RM Per Kg</b> <i>RM Per Kg</i>		
<b>C9, MS145</b>	<b>2015 Mei</b>	2.32	2.98	3.68
	<b>Jun</b>	2.32	2.98	3.68
	<b>Jul</b>	2.32	2.98	3.68
	<b>Ogos</b>	2.32	2.98	3.68
	<b>Sept</b>	2.32	2.98	3.68
	<b>Okt</b>	2.32	2.98	3.68
	<b>Nov</b>	2.32	2.98	3.68
	<b>Dis</b>	2.32	2.98	3.47
	<b>2016 Jan</b>	2.32	2.98	3.39
	<b>Feb</b>	2.32	2.98	3.39
	<b>Mac</b>	2.32	2.98	3.39
	<b>Apr</b>	2.40	2.98	3.39
	<b>Mei</b>	3.00	2.98	3.39
	<b>C10, MS145</b>	<b>2015 Mei</b>	2.33	2.98
<b>Jun</b>		2.33	2.98	3.68
<b>Jul</b>		2.33	2.98	3.68
<b>Ogos</b>		2.33	2.98	3.68
<b>Sept</b>		2.33	2.98	3.68
<b>Okt</b>		2.33	2.98	3.68
<b>Nov</b>		2.33	2.98	3.68
<b>Dis</b>		2.33	2.98	3.47
<b>2016 Jan</b>		2.33	2.98	3.39
<b>Feb</b>		2.33	2.98	3.39
<b>Mac</b>		2.33	2.98	3.39
<b>Apr</b>		2.40	2.98	3.39
<b>Mei</b>		3.00	2.98	3.39
<b>DA4, MS145</b>		<b>2015 Mei</b>	2.35	3.01
	<b>Jun</b>	2.35	3.01	3.72
	<b>Jul</b>	2.35	3.01	3.72
	<b>Ogos</b>	2.35	3.01	3.72
	<b>Sept</b>	2.35	3.01	3.72
	<b>Okt</b>	2.35	3.01	3.72
	<b>Nov</b>	2.35	3.01	3.72
	<b>Dis</b>	2.35	3.01	3.51
	<b>2016 Jan</b>	2.35	3.01	3.42
	<b>Feb</b>	2.35	3.01	3.42
	<b>Mac</b>	2.35	3.01	3.42
	<b>Apr</b>	2.42	3.01	3.42
	<b>Mei</b>	3.03	3.01	3.42

**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>
<b>(4) Fabric Reinforcement (samb.)</b> <i>Fabric Reinforcement (cont'd)</i>		<b>RM Per Kg</b> <i>RM Per Kg</i>		
<b>DA5, MS145</b>	<b>2015 Mei</b>	2.34	2.99	3.70
	<b>Jun</b>	2.34	2.99	3.70
	<b>Jul</b>	2.34	2.99	3.70
	<b>Ogos</b>	2.34	2.99	3.70
	<b>Sept</b>	2.34	2.99	3.70
	<b>Okt</b>	2.34	2.99	3.70
	<b>Nov</b>	2.34	2.99	3.70
	<b>Dis</b>	2.34	2.99	3.49
	<b>2016 Jan</b>	2.34	2.99	3.40
	<b>Feb</b>	2.34	2.99	3.40
	<b>Mac</b>	2.34	2.99	3.40
	<b>Apr</b>	2.41	2.99	3.40
	<b>Mei</b>	3.01	2.99	3.40
	<b>DA6, MS145</b>	<b>2015 Mei</b>	2.09	2.67
<b>Jun</b>		2.09	2.67	3.32
<b>Jul</b>		2.09	2.67	3.32
<b>Ogos</b>		2.09	2.67	3.32
<b>Sept</b>		2.09	2.67	3.32
<b>Okt</b>		2.09	2.67	3.32
<b>Nov</b>		2.09	2.67	3.32
<b>Dis</b>		2.09	2.67	3.13
<b>2016 Jan</b>		2.09	2.67	3.05
<b>Feb</b>		2.09	2.67	3.05
<b>Mac</b>		2.09	2.67	3.05
<b>Apr</b>		2.16	2.67	3.05
<b>Mei</b>		2.70	2.67	3.05
<b>DA7, MS145</b>		<b>2015 Mei</b>	2.09	2.68
	<b>Jun</b>	2.09	2.68	3.31
	<b>Jul</b>	2.09	2.68	3.31
	<b>Ogos</b>	2.09	2.68	3.31
	<b>Sept</b>	2.09	2.68	3.31
	<b>Okt</b>	2.09	2.68	3.31
	<b>Nov</b>	2.09	2.68	3.31
	<b>Dis</b>	2.09	2.68	3.13
	<b>2016 Jan</b>	2.09	2.68	3.05
	<b>Feb</b>	2.09	2.68	3.05
	<b>Mac</b>	2.09	2.68	3.05
	<b>Apr</b>	2.16	2.68	3.05
	<b>Mei</b>	2.70	2.68	3.05

**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>
<b>(4) Fabric Reinforcement (samb.)</b> <i>Fabric Reinforcement (cont'd)</i>		<b>RM Per Kg</b> <i>RM Per Kg</i>		
<b>DA8, MS145</b>	<b>2015 Mei</b>	2.10	2.68	3.32
	<b>Jun</b>	2.10	2.68	3.32
	<b>Jul</b>	2.10	2.68	3.32
	<b>Ogos</b>	2.10	2.68	3.32
	<b>Sept</b>	2.10	2.68	3.32
	<b>Okt</b>	2.10	2.68	3.32
	<b>Nov</b>	2.10	2.68	3.32
	<b>Dis</b>	2.10	2.68	3.13
	<b>2016 Jan</b>	2.10	2.68	3.06
	<b>Feb</b>	2.10	2.68	3.06
	<b>Mac</b>	2.10	2.68	3.06
	<b>Apr</b>	2.16	2.68	3.06
	<b>Mei</b>	2.70	2.68	3.06
<b>DA9, MS145</b>	<b>2015 Mei</b>	2.09	2.68	3.31
	<b>Jun</b>	2.09	2.68	3.31
	<b>Jul</b>	2.09	2.68	3.31
	<b>Ogos</b>	2.09	2.68	3.31
	<b>Sept</b>	2.09	2.68	3.31
	<b>Okt</b>	2.09	2.68	3.31
	<b>Nov</b>	2.09	2.68	3.31
	<b>Dis</b>	2.09	2.68	3.13
	<b>2016 Jan</b>	2.09	2.68	3.05
	<b>Feb</b>	2.09	2.68	3.05
	<b>Mac</b>	2.09	2.68	3.05
	<b>Apr</b>	2.16	2.68	3.05
	<b>Mei</b>	2.70	2.68	3.05
<b>DA10, MS145</b>	<b>2015 Mei</b>	2.09	2.68	3.30
	<b>Jun</b>	2.09	2.68	3.30
	<b>Jul</b>	2.09	2.68	3.30
	<b>Ogos</b>	2.09	2.68	3.30
	<b>Sept</b>	2.09	2.68	3.30
	<b>Okt</b>	2.09	2.68	3.30
	<b>Nov</b>	2.09	2.68	3.30
	<b>Dis</b>	2.09	2.68	3.11
	<b>2016 Jan</b>	2.09	2.68	3.04
	<b>Feb</b>	2.09	2.68	3.04
	<b>Mac</b>	2.09	2.68	3.04
	<b>Apr</b>	2.16	2.68	3.04
	<b>Mei</b>	2.70	2.68	3.04

**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>
<b>(5) Guardrail</b> <i>Guardrail</i>			<b>RM Per Meter</b> <i>RM Per Metre</i>	
<b>Single Mounted</b>	<b>2015 Mei</b>	139.95	141.75	145.50
<b>i) 1.95m Post Spacing</b>	<b>Jun</b>	139.95	141.75	145.50
	<b>Jul</b>	139.95	141.75	145.50
	<b>Ogos</b>	139.95	141.75	145.50
	<b>Sept</b>	139.95	141.75	145.50
	<b>Okt</b>	139.95	141.75	145.50
	<b>Nov</b>	139.95	141.75	145.50
	<b>Dis</b>	139.95	141.75	145.50
	<b>2016 Jan</b>	135.00	136.75	140.50
	<b>Feb</b>	135.00	136.75	140.50
	<b>Mac</b>	135.00	136.75	140.50
	<b>Apr</b>	135.00	136.75	140.50
	<b>Mei</b>	135.00	136.75	140.50
<b>ii) 3.80m Post Spacing</b>	<b>2015 Mei</b>	99.30	100.55	103.20
	<b>Jun</b>	99.30	100.55	103.20
	<b>Jul</b>	99.30	100.55	103.20
	<b>Ogos</b>	99.30	100.55	103.20
	<b>Sept</b>	99.30	100.55	103.20
	<b>Okt</b>	99.30	100.55	103.20
	<b>Nov</b>	99.30	100.55	103.20
	<b>Dis</b>	99.30	100.55	103.20
	<b>2016 Jan</b>	95.85	97.05	99.70
	<b>Feb</b>	95.85	97.05	99.70
	<b>Mac</b>	95.85	97.05	99.70
	<b>Apr</b>	95.85	97.05	99.70
	<b>Mei</b>	95.85	97.05	99.70

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

*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 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>
<b>(5) Guardrail (samb.)</b> <i>Guardrail (cont'd)</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>		
<b>Double Mounted</b>	<b>2015 Mei</b>	214.95	217.60	223.30
<b>i) 1.95m Post Spacing</b>	<b>Jun</b>	214.95	217.60	223.30
	<b>Jul</b>	214.95	217.60	223.30
	<b>Ogos</b>	214.95	218.90	223.30
	<b>Sept</b>	214.95	218.90	223.30
	<b>Okt</b>	214.95	218.90	223.30
	<b>Nov</b>	214.95	218.90	223.30
	<b>Dis</b>	214.95	218.90	223.30
	<b>2016 Jan</b>	207.35	210.00	215.70
	<b>Feb</b>	207.35	210.00	215.70
	<b>Mac</b>	207.35	210.00	215.70
	<b>Apr</b>	207.35	210.00	215.70
	<b>Mei</b>	207.35	210.00	215.70
	<b>ii) 3.80m Post Spacing</b>	<b>2015 Mei</b>	166.15	168.20
<b>Jun</b>		166.15	168.20	172.60
<b>Jul</b>		166.15	168.20	172.60
<b>Ogos</b>		166.15	168.00	172.60
<b>Sept</b>		166.15	168.00	172.60
<b>Okt</b>		166.15	168.00	172.60
<b>Nov</b>		166.15	168.00	172.60
<b>Dis</b>		166.15	168.00	172.60
<b>2016 Jan</b>		160.35	162.35	166.70
<b>Feb</b>		160.35	162.35	166.70
<b>Mac</b>		160.35	162.35	166.70
<b>Apr</b>		160.35	162.35	166.70
<b>Mei</b>		160.35	162.35	166.70

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

*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 pembedungan (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
<b>(6a) Paip Air</b> <i>Water Pipe</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>
<b>Mild Steel Pipe</b> <b>300mm</b>	2015 Mei	189.00
	Jun	189.00
	Jul	189.00
	Ogos	179.00
	Sept	179.00
	Okt	180.00
	Nov	180.00
	Dis	182.00
	2016 Jan	182.00
	Feb	182.00
	Mac	182.00
	Apr	198.00
	Mei	198.00
	<b>Stainless Steel Pipe</b> <b>25mm</b>	2015 Mei
Jun		27.00
Jul		27.00
Ogos		27.00
Sept		27.00
Okt		27.00
Nov		27.00
Dis		27.00
2016 Jan		27.00
Feb		27.00
Mac		27.00
Apr		27.00
Mei		27.00
<b>Ductile Iron Pipe</b> <b>300mm</b>		2015 Mei
	Jun	283.30
	Jul	283.30
	Ogos	283.30
	Sept	283.30
	Okt	283.30
	Nov	283.30
	Dis	283.30
	2016 Jan	283.30
	Feb	283.30
	Mac	283.30
	Apr	283.30
	Mei	283.30

**Harga bagi paip air dan paip pembedungan adalah harga di kilang.**

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

**Jadual 3: Harga unit purata bagi pasir, batu baur, *premix*, *fabric reinforcement*, *guardrail* dan paip air & paip pembedungan (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	
<b>(6a) Paip Air (samb.)</b> <i>Water Pipe (cont'd)</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>	
High Density Polyethylene (HDPE) Pipe i. Compression Fitting Using For Jointing 25mm	2015 Mei	1.50	
	Jun	1.50	
	Jul	1.50	
	Ogos	1.50	
	Sept	1.50	
	Okt	1.50	
	Nov	1.50	
	Dis	1.50	
	2016 Jan	1.50	
	Feb	1.50	
	Mac	1.50	
	Apr	1.50	
	Mei	1.50	
	ii. Electrofusion Jointing 160mm	2015 Mei	72.30
		Jun	72.30
		Jul	72.30
		Ogos	72.30
Sept		72.30	
Okt		72.30	
Nov		72.30	
Dis		72.30	
2016 Jan		72.30	
Feb		72.30	
Mac		72.30	
Apr		72.30	
Mei		72.30	
iii. Butt Fussion 160mm	2015 Mei	57.63	
	Jun	57.63	
	Jul	57.63	
	Ogos	57.63	
	Sept	57.63	
	Okt	57.63	
	Nov	57.63	
	Dis	57.63	
	2016 Jan	57.63	
	Feb	57.63	
	Mac	57.63	
	Apr	57.63	
	Mei	57.63	

**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>
<b>(6b) Paip Pembedungan (samb.)</b> <i>Sewerage Pipe (cont'd)</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>
Mild Steel Pipe 300mm	2015 Mei	204.12
	Jun	204.12
	Jul	204.12
	Ogos	193.32
	Sept	193.32
	Okt	194.40
	Nov	194.40
	Dis	196.56
	2016 Jan	196.56
	Feb	196.56
	Mac	196.56
	Apr	213.84
	Mei	213.84
Ductile Iron Pipe 250mm	2015 Mei	185.00
	Jun	185.00
	Jul	185.00
	Ogos	185.00
	Sept	185.00
	Okt	185.00
	Nov	185.00
	Dis	185.00
	2016 Jan	185.00
	Feb	185.00
	Mac	185.00
	Apr	185.00
	Mei	185.00
High Density Polyethylene (HDPE) Pipe i. Profile Pipe 150mm	2015 Mei	27.50
	Jun	27.50
	Jul	27.50
	Ogos	27.50
	Sept	27.50
	Okt	27.50
	Nov	27.50
	Dis	30.25
	2016 Jan	30.25
	Feb	30.25
	Mac	30.25
	Apr	30.25
	Mei	30.25

**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 Period	Kawasan Region	
		Semenanjung Malaysia Peninsular Malaysia	
<b>(6b) Paip Pembedungan (samb.)</b> <i>Sewerage Pipe (cont'd)</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>	
High Density Polyethylene (HDPE) Pipe ii. Solid Pipe 250mm	2015 Mei	98.20	
	Jun	98.20	
	Jul	98.20	
	Ogos	98.20	
	Sept	98.20	
	Okt	98.20	
	Nov	98.20	
	Dis	108.02	
	2016 Jan	108.02	
	Feb	108.02	
	Mac	108.02	
	Apr	108.02	
	Mei	108.02	
	Vitrified Clay Pipe i. Standard Pipe 225mm	2015 Mei	66.00
		Jun	66.00
Jul		66.00	
Ogos		66.00	
Sept		66.00	
Okt		66.00	
Nov		64.55	
Dis		64.55	
2016 Jan		64.55	
Feb		64.55	
Mac		64.55	
Apr		64.55	
Mei		64.55	
ii. Jacking Pipe 225mm		2015 Mei	302.00
		Jun	302.00
	Jul	302.00	
	Ogos	302.00	
	Sept	302.00	
	Okt	302.00	
	Nov	302.00	
	Dis	302.00	
	2016 Jan	302.00	
	Feb	302.00	
	Mac	302.00	
	Apr	302.00	
	Mei	302.00	

**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 Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
<b>(6b) Paip Pembedungan (samb.)</b> <i>Sewerage Pipe (cont'd)</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>
<b>Reinforced Concrete Pipe</b>	<b>2015 Mei</b>	185.30
<b>i. Without Lining</b>	<b>Jun</b>	185.30
<b>900mm</b>	<b>Jul</b>	185.30
	<b>Ogos</b>	185.30
	<b>Sept</b>	185.30
	<b>Okt</b>	217.00
	<b>Nov</b>	217.00
	<b>Dis</b>	217.00
	<b>2016 Jan</b>	217.00
	<b>Feb</b>	217.00
	<b>Mac</b>	217.00
	<b>Apr</b>	217.00
	<b>Mei</b>	217.00
<b>ii. With Lining (High Alumina)</b>	<b>2015 Mei</b>	241.70
<b>900mm</b>	<b>Jun</b>	241.70
	<b>Jul</b>	241.70
	<b>Ogos</b>	241.70
	<b>Sept</b>	241.70
	<b>Okt</b>	241.70
	<b>Nov</b>	241.70
	<b>Dis</b>	241.70
	<b>2016 Jan</b>	241.70
	<b>Feb</b>	241.70
	<b>Mac</b>	241.70
	<b>Apr</b>	241.70
	<b>Mei</b>	241.70
<b>iii. With Lining (Sacrificial Lining)</b>	<b>2015 Mei</b>	213.60
<b>900mm</b>	<b>Jun</b>	213.60
	<b>Jul</b>	213.60
	<b>Ogos</b>	213.60
	<b>Sept</b>	213.60
	<b>Okt</b>	213.60
	<b>Nov</b>	213.60
	<b>Dis</b>	213.60
	<b>2016 Jan</b>	213.60
	<b>Feb</b>	213.60
	<b>Mac</b>	213.60
	<b>Apr</b>	213.60
	<b>Mei</b>	213.60

**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>
<b>(6b) Paip Pembedungan (samb.)</b> <i>Sewerage Pipe (cont'd)</i>		<b>RM Per Meter</b> <i>RM Per Metre</i>
<b>ABS Pipe</b>	<b>2015 Mei</b>	28.92
<b>i. Gravity</b>	<b>Jun</b>	28.92
<b>110mm</b>	<b>Jul</b>	28.92
	<b>Ogos</b>	28.92
	<b>Sept</b>	28.92
	<b>Okt</b>	28.92
	<b>Nov</b>	28.92
	<b>Dis</b>	28.92
	<b>2016 Jan</b>	28.92
	<b>Feb</b>	28.92
	<b>Mac</b>	28.92
	<b>Apr</b>	28.92
	<b>Mei</b>	28.92
<b>ii. Force Main</b>	<b>2015 Mei</b>	81.65
<b>225mm</b>	<b>Jun</b>	81.65
	<b>Jul</b>	81.65
	<b>Ogos</b>	81.65
	<b>Sept</b>	81.65
	<b>Okt</b>	81.65
	<b>Nov</b>	81.65
	<b>Dis</b>	81.65
	<b>2016 Jan</b>	81.65
	<b>Feb</b>	81.65
	<b>Mac</b>	81.65
	<b>Apr</b>	81.65
	<b>Mei</b>	81.65

**LAMPIRAN**  
*APPENDIX*

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<p style="text-align: center;"><b>Paip air</b> <i>Water pipe</i></p> <p>1. Mild Steel Pipe</p> <p style="padding-left: 40px;">100 mm Ø</p> <p style="padding-left: 40px;">150 "</p> <p style="padding-left: 40px;">200 "</p> <p style="padding-left: 40px;">250 "</p> <p style="padding-left: 40px;">300 "</p> <p style="padding-left: 40px;">350 "</p> <p style="padding-left: 40px;">400 "</p> <p style="padding-left: 40px;">450 "</p> <p style="padding-left: 40px;">500 "</p> <p style="padding-left: 40px;">600 "</p> <p style="padding-left: 40px;">700 "</p> <p style="padding-left: 40px;">750 "</p> <p style="padding-left: 40px;">800 "</p> <p style="padding-left: 40px;">900 "</p> <p style="padding-left: 40px;">1000 "</p> <p style="padding-left: 40px;">1100 "</p> <p style="padding-left: 40px;">1150 "</p> <p style="padding-left: 40px;">1200 "</p> <p style="padding-left: 40px;">1300 "</p> <p style="padding-left: 40px;">1400 "</p> <p style="padding-left: 40px;">1500 "</p> <p style="padding-left: 40px;">1600 "</p> <p style="padding-left: 40px;">1700 "</p> <p style="padding-left: 40px;">1800 "</p> <p style="padding-left: 40px;">1900 "</p> <p style="padding-left: 40px;">2000 "</p> <p style="padding-left: 40px;">2100 "</p> <p style="padding-left: 40px;">2200 "</p>	<p style="padding-left: 40px;">0.25</p> <p style="padding-left: 40px;">0.36</p> <p style="padding-left: 40px;">0.47</p> <p style="padding-left: 40px;">0.59</p> <p style="padding-left: 40px;">1.00</p> <p style="padding-left: 40px;">1.16</p> <p style="padding-left: 40px;">1.32</p> <p style="padding-left: 40px;">1.48</p> <p style="padding-left: 40px;">1.63</p> <p style="padding-left: 40px;">2.18</p> <p style="padding-left: 40px;">2.80</p> <p style="padding-left: 40px;">2.99</p> <p style="padding-left: 40px;">3.18</p> <p style="padding-left: 40px;">3.56</p> <p style="padding-left: 40px;">4.25</p> <p style="padding-left: 40px;">5.53</p> <p style="padding-left: 40px;">5.83</p> <p style="padding-left: 40px;">6.40</p> <p style="padding-left: 40px;">7.60</p> <p style="padding-left: 40px;">8.16</p> <p style="padding-left: 40px;">10.32</p> <p style="padding-left: 40px;">10.98</p> <p style="padding-left: 40px;">11.64</p> <p style="padding-left: 40px;">12.30</p> <p style="padding-left: 40px;">12.96</p> <p style="padding-left: 40px;">14.74</p> <p style="padding-left: 40px;">16.01</p> <p style="padding-left: 40px;">17.33</p>
<p>2. Stainless Steel Pipe</p> <p style="padding-left: 40px;">13 mm Ø (1/2")</p> <p style="padding-left: 40px;">20 " (3/4")</p> <p style="padding-left: 40px;">25 " (1")</p> <p style="padding-left: 40px;">32 " (1 1/4")</p> <p style="padding-left: 40px;">38 " (1 1/2")</p> <p style="padding-left: 40px;">50 " (2")</p> <p style="padding-left: 40px;">63 " (2 1/2")</p> <p style="padding-left: 40px;">75 " (3")</p> <p style="padding-left: 40px;">100 " (4")</p>	<p style="padding-left: 40px;">0.53</p> <p style="padding-left: 40px;">0.69</p> <p style="padding-left: 40px;">1.00</p> <p style="padding-left: 40px;">1.34</p> <p style="padding-left: 40px;">1.59</p> <p style="padding-left: 40px;">2.14</p> <p style="padding-left: 40px;">3.42</p> <p style="padding-left: 40px;">4.66</p> <p style="padding-left: 40px;">6.72</p>

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<p style="text-align: center;"><b>Paip air</b> <i>Water pipe</i></p> <p>3. Ductile Iron Pipe</p> <p style="padding-left: 40px;">100 mm Ø 150 " 200 " 250 " 300 " 350 " 400 " 450 " 500 " 600 " 700 "</p>	<p style="text-align: right;">0.35 0.45 0.60 0.79 1.00 1.25 1.50 1.78 2.05 2.70 3.50</p>
<p>4. High Density Polyethylene (HDPE) Pipe</p> <p>i. Compression Fitting Using For Jointing</p> <p style="padding-left: 40px;">20 mm Ø 25 " 32 " 40 " 50 " 63 " 75 " 90 "</p> <p>ii. Electrofusion Jointing</p> <p style="padding-left: 40px;">110 mm Ø 125 " 140 " 160 " 180 " 200 " 225 " 250 " 280 " 315 " 355 " 400 " 450 " 500 " 560 "</p>	<p style="text-align: right;">0.69 1.00 1.63 2.59 3.93 6.18 8.83 12.68</p> <p style="text-align: right;">0.48 0.63 0.80 1.00 1.30 1.54 1.96 2.46 3.27 3.97 6.29 7.80 12.98 17.76 21.02</p>

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<p style="text-align: center;"><b>Paip air</b> <i>Water pipe</i></p> <p>iii. Butt Fussion</p> <p style="padding-left: 40px;">110 mm Ø</p> <p style="padding-left: 40px;">125 "</p> <p style="padding-left: 40px;">140 "</p> <p style="padding-left: 40px;">160 "</p> <p style="padding-left: 40px;">180 "</p> <p style="padding-left: 40px;">200 "</p> <p style="padding-left: 40px;">225 "</p> <p style="padding-left: 40px;">250 "</p> <p style="padding-left: 40px;">280 "</p> <p style="padding-left: 40px;">315 "</p> <p style="padding-left: 40px;">355 "</p> <p style="padding-left: 40px;">400 "</p> <p style="padding-left: 40px;">450 "</p> <p style="padding-left: 40px;">500 "</p> <p style="padding-left: 40px;">560 "</p>	<p style="text-align: right;">0.48</p> <p style="text-align: right;">0.62</p> <p style="text-align: right;">0.76</p> <p style="text-align: right;">1.00</p> <p style="text-align: right;">1.25</p> <p style="text-align: right;">1.56</p> <p style="text-align: right;">1.94</p> <p style="text-align: right;">2.38</p> <p style="text-align: right;">2.97</p> <p style="text-align: right;">3.76</p> <p style="text-align: right;">4.79</p> <p style="text-align: right;">6.06</p> <p style="text-align: right;">7.90</p> <p style="text-align: right;">7.90</p> <p style="text-align: right;">12.61</p>

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<p style="text-align: center;"><b>Paip pembedungan</b> <i>Sewerage pipe</i></p> <p>1. Mild Steel Pipe</p> <p style="padding-left: 40px;">100 mm Ø</p> <p style="padding-left: 40px;">125 "</p> <p style="padding-left: 40px;">150 "</p> <p style="padding-left: 40px;">200 "</p> <p style="padding-left: 40px;">250 "</p> <p style="padding-left: 40px;">300 "</p> <p style="padding-left: 40px;">350 "</p> <p style="padding-left: 40px;">400 "</p> <p style="padding-left: 40px;">450 "</p> <p style="padding-left: 40px;">500 "</p> <p style="padding-left: 40px;">550 "</p> <p style="padding-left: 40px;">600 "</p> <p style="padding-left: 40px;">650 "</p> <p style="padding-left: 40px;">700 "</p> <p style="padding-left: 40px;">750 "</p> <p style="padding-left: 40px;">800 "</p> <p style="padding-left: 40px;">850 "</p> <p style="padding-left: 40px;">900 "</p> <p style="padding-left: 40px;">950 "</p> <p style="padding-left: 40px;">1000 "</p> <p style="padding-left: 40px;">1200 "</p> <p style="padding-left: 40px;">1400 "</p> <p style="padding-left: 40px;">1600 "</p> <p style="padding-left: 40px;">1800 "</p> <p style="padding-left: 40px;">2000 "</p> <p style="padding-left: 40px;">2100 "</p> <p style="padding-left: 40px;">2200 "</p>	<p style="padding-left: 40px;">0.40</p> <p style="padding-left: 40px;">0.50</p> <p style="padding-left: 40px;">0.59</p> <p style="padding-left: 40px;">0.79</p> <p style="padding-left: 40px;">0.99</p> <p style="padding-left: 40px;">1.00</p> <p style="padding-left: 40px;">1.38</p> <p style="padding-left: 40px;">1.58</p> <p style="padding-left: 40px;">1.78</p> <p style="padding-left: 40px;">1.98</p> <p style="padding-left: 40px;">2.20</p> <p style="padding-left: 40px;">2.37</p> <p style="padding-left: 40px;">2.50</p> <p style="padding-left: 40px;">2.77</p> <p style="padding-left: 40px;">2.96</p> <p style="padding-left: 40px;">3.16</p> <p style="padding-left: 40px;">3.40</p> <p style="padding-left: 40px;">3.56</p> <p style="padding-left: 40px;">3.80</p> <p style="padding-left: 40px;">3.95</p> <p style="padding-left: 40px;">4.74</p> <p style="padding-left: 40px;">5.53</p> <p style="padding-left: 40px;">6.32</p> <p style="padding-left: 40px;">7.11</p> <p style="padding-left: 40px;">7.91</p> <p style="padding-left: 40px;">8.30</p> <p style="padding-left: 40px;">8.70</p>
<p>2. Ductile Iron Pipe</p> <p style="padding-left: 40px;">80 mm Ø</p> <p style="padding-left: 40px;">100 "</p> <p style="padding-left: 40px;">150 "</p> <p style="padding-left: 40px;">200 "</p> <p style="padding-left: 40px;">250 "</p> <p style="padding-left: 40px;">300 "</p> <p style="padding-left: 40px;">350 "</p> <p style="padding-left: 40px;">400 "</p> <p style="padding-left: 40px;">450 "</p> <p style="padding-left: 40px;">500 "</p> <p style="padding-left: 40px;">600 "</p> <p style="padding-left: 40px;">700 "</p> <p style="padding-left: 40px;">800 "</p> <p style="padding-left: 40px;">1000 "</p> <p style="padding-left: 40px;">1200 "</p>	<p style="padding-left: 40px;">0.35</p> <p style="padding-left: 40px;">0.40</p> <p style="padding-left: 40px;">0.60</p> <p style="padding-left: 40px;">0.80</p> <p style="padding-left: 40px;">1.00</p> <p style="padding-left: 40px;">1.20</p> <p style="padding-left: 40px;">1.40</p> <p style="padding-left: 40px;">1.60</p> <p style="padding-left: 40px;">1.80</p> <p style="padding-left: 40px;">2.00</p> <p style="padding-left: 40px;">2.40</p> <p style="padding-left: 40px;">2.80</p> <p style="padding-left: 40px;">3.20</p> <p style="padding-left: 40px;">3.40</p> <p style="padding-left: 40px;">3.60</p>

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<b>Paip pembedungan</b> <i>Sewerage pipe</i>	
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
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 mm Ø	10.00

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<p style="text-align: center;"><b>Paip pembedungan</b> <i>Sewerage pipe</i></p> <p style="text-align: center;">800 "</p> <p style="text-align: center;">850 "</p> <p style="text-align: center;">900 "</p> <p style="text-align: center;">950 "</p> <p style="text-align: center;">1000 "</p> <p style="text-align: center;">1200 "</p> <p style="text-align: center;">1400 "</p> <p style="text-align: center;">1600 "</p> <p style="text-align: center;">1800 "</p> <p style="text-align: center;">2000 "</p> <p style="text-align: center;">2100 "</p> <p style="text-align: center;">2200 "</p>	<p style="text-align: center;">11.75</p> <p style="text-align: center;">15.00</p> <p style="text-align: center;">16.50</p> <p style="text-align: center;">18.00</p> <p style="text-align: center;">20.40</p> <p style="text-align: center;">24.00</p> <p style="text-align: center;">26.00</p> <p style="text-align: center;">32.00</p> <p style="text-align: center;">36.00</p> <p style="text-align: center;">38.00</p> <p style="text-align: center;">42.00</p> <p style="text-align: center;">45.00</p>
<p>4. Vitrified Clay Pipe</p> <p>i. Vitrified Clay (Standard) Pipe</p> <p style="text-align: center;">100 mm Ø</p> <p style="text-align: center;">150 "</p> <p style="text-align: center;">200 "</p> <p style="text-align: center;">225 "</p> <p style="text-align: center;">300 "</p> <p style="text-align: center;">375 "</p> <p style="text-align: center;">400 "</p> <p style="text-align: center;">450 "</p> <p style="text-align: center;">500 "</p> <p style="text-align: center;">600 "</p> <p style="text-align: center;">700 "</p> <p style="text-align: center;">800 "</p> <p>ii. Vitrified Clay (Jacking) Pipe</p> <p style="text-align: center;">100 mm Ø</p> <p style="text-align: center;">150 "</p> <p style="text-align: center;">200 "</p> <p style="text-align: center;">225 "</p> <p style="text-align: center;">300 "</p> <p style="text-align: center;">375 "</p> <p style="text-align: center;">400 "</p> <p style="text-align: center;">450 "</p> <p style="text-align: center;">500 "</p> <p style="text-align: center;">600 "</p> <p style="text-align: center;">700 "</p> <p style="text-align: center;">800 "</p>	<p style="text-align: center;">0.40</p> <p style="text-align: center;">0.52</p> <p style="text-align: center;">0.84</p> <p style="text-align: center;">1.00</p> <p style="text-align: center;">2.37</p> <p style="text-align: center;">4.24</p> <p style="text-align: center;">4.95</p> <p style="text-align: center;">5.63</p> <p style="text-align: center;">7.96</p> <p style="text-align: center;">11.78</p> <p style="text-align: center;">14.33</p> <p style="text-align: center;">14.50</p> <p style="text-align: center;">0.80</p> <p style="text-align: center;">0.85</p> <p style="text-align: center;">0.90</p> <p style="text-align: center;">1.00</p> <p style="text-align: center;">1.60</p> <p style="text-align: center;">1.87</p> <p style="text-align: center;">2.17</p> <p style="text-align: center;">2.60</p> <p style="text-align: center;">3.22</p> <p style="text-align: center;">3.75</p> <p style="text-align: center;">4.15</p> <p style="text-align: center;">4.65</p>

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

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<b>Paip pembedungan</b> <i>Sewerage pipe</i>	
<b>5. Reinforced Concrete Pipe (RCP)</b>	
<b>i. Without Lining</b>	
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
<b>ii. With Lining (High Alumina)</b>	
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
<b>iii. With Lining (Sacrificial Lining)</b>	
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 pembedungan**  
*Adjustment factor table for water pipe and sewerage pipe*

<b>Kategori dan saiz paip</b> <i>Category and size of pipe</i>	<b>Faktor pelarasan</b> <i>Adjustment factor</i>
<b>Paip pembedungan</b> <i>Sewerage pipe</i>	
<b>6. ABS Pipe</b>	
<b>i. Gravity</b>	
90 mm Ø	0.67
110 "	1.00
150 "	2.07
225 "	3.64
315 "	7.10
<b>ii. Force Main</b>	
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

**NOTA TEKNIKAL**  
*TECHNICAL NOTES*

## NOTA TEKNIKAL

Harga bar keluli, simen dan *fabric reinforcement* yang diterbitkan dalam Siaran Khas 1 ini diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia.

Harga yang dilaporkan adalah mengikut 3 kawasan di Semenanjung Malaysia 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

Harga bitumen penembusan 80/100 adalah berdasarkan harga purata ex-Kuala Lumpur.

Harga diesel diperoleh daripada Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan.

Harga paip air dan paip pembetungan diperoleh daripada persatuan pembekal. Faktor pelarasan bagi kategori dan saiz paip yang tidak diterbitkan dalam Siaran Khas 1 ini adalah seperti di Lampiran A.

Harga bagi bahan-bahan binaan lain (yang tidak dinyatakan di atas) adalah diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia.

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

*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.*

*Prices are reported according to 3 regions in Peninsular Malaysia as follows:*

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

*The Bitumen 80/100 Penetration is based on the average ex-Kuala Lumpur.*

*The price for diesel is obtained from the Ministry of Domestic Trade, Co-operatives and Consumerism.*

*The prices for water pipe and sewerage pipe are obtained from the supplier associations. The adjustment factors for the other categories and sizes not published in this Special Release 1 are shown in Appendix A.*

*The prices for other building materials (not stated above) are obtained from the price collection conducted by Department of Statistics, Malaysia.*

*All prices mentioned above are relevant for escalation purposes only and should not be used to represent actual price levels.*

**Jadual Tarikh pengeluaran Siaran Khas 1 (Untuk Kerja-Kerja Kejuruteraan Awam),  
Semenanjung Malaysia, Januari - Disember 2016**

*Schedule Of Release Dates For Special Release 1 (For Civil Engineering Works),  
Peninsular Malaysia, January - December 2016*

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<b>Bulan Rujukan</b> <i>Reference Month</i>	<b>Tarikh</b> <i>Date</i>
<b>Januari 2016</b> <i>January 2016</i>	<b>10 Februari 2016</b> <i>10 February 2016</i>
<b>Februari 2016</b> <i>February 2016</i>	<b>10 Mac 2016</b> <i>10 March 2016</i>
<b>Mac 2016</b> <i>March 2016</i>	<b>11 April 2016</b> <i>11 April 2016</i>
<b>April 2016</b> <i>April 2016</i>	<b>10 Mei 2016</b> <i>10 May 2016</i>
<b>Mei 2016</b> <i>May 2016</i>	<b>10 Jun 2016</b> <i>10 June 2016</i>
<b>Jun 2016</b> <i>June 2016</i>	<b>11 Julai 2016</b> <i>11 July 2016</i>
<b>Julai 2016</b> <i>July 2016</i>	<b>10 Ogos 2016</b> <i>10 August 2016</i>
<b>Ogos 2016</b> <i>August 2016</i>	<b>09 September 2016</b> <i>09 September 2016</i>
<b>September 2016</b> <i>September 2016</i>	<b>10 Oktober 2016</b> <i>10 October 2016</i>
<b>Oktober 2016</b> <i>October 2016</i>	<b>10 November 2016</b> <i>10 November 2016</i>
<b>November 2016</b> <i>November 2016</i>	<b>09 Disember 2016</b> <i>09 December 2016</i>
<b>Disember 2016</b> <i>December 2016</i>	<b>10 Januari 2017</b> <i>10 January 2017</i>

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