



**SIARAN KHAS**

*Special Release*

**1**

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*PENINSULAR MALAYSIA*

**(UNTUK KERJA-KERJA KEJURUTERAAN AWAM)**

*(For Civil Engineering Works)*

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**NOTA TEKNIKAL**  
*TECHNICAL NOTES*



**NOTA TEKNIKAL HARGA UNIT PURATA BAGI BAR KELULI, SIMEN, BITUMEN,  
MINYAK BAHAN API, DIESEL, PASIR, BATU BAUR, PREMIX, FABRIC  
REINFORCEMENT, GUARDRAIL, PAIP AIR DAN PAIP PEMBETUNGAN**

Harga bagi minyak diesel adalah harga kawalan kerajaan yang ditentukan oleh Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan. Harga adalah ex-Kuala Lumpur.

Mulai Disember 2006, harga bar keluli dan simen yang diterbitkan dalam Siaran Khas 1 ini diperoleh dari Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB).

Harga yang dilaporkan 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

Mulai Jun 2008, harga minyak bahan api diperoleh dari Shell Malaysia. Mulai Julai 2007, harga bitumen penembusan 80/100 adalah berdasarkan harga purata ex-Port Klang yang dibekalkan kepada kontraktor-kontraktor oleh pembekal-pembekal utama.

Mulai Ogos 2008, harga pasir, batu baur dan *fabric reinforcement* diterbitkan dalam Siaran Khas 1 ini. Harga bagi *fabric reinforcement* diperoleh dari CIDB.

Harga *Premix Asphaltic Concrete* dan *Premix Bituminous Macadam* diterbitkan dalam Siaran Khas 1 mulai September 2008.

Mulai Oktober 2008, harga *guardrail* diterbitkan dalam Siaran Khas 1 ini. Harga sehingga Disember 2009 diperoleh dari CIDB. Mulai Januari 2010, harga *guardrail* diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia. Harga yang diterbitkan adalah harga di kilang termasuk kos pengangkutan.

Mulai November 2008, harga paip air dan paip pembedungan diterbitkan dalam Siaran Khas 1 ini. Harga diterbitkan untuk Semenanjung Malaysia sahaja. Faktor pelarasan bagi kategori dan saiz paip yang tidak diterbitkan dalam Siaran Khas 1 ini adalah seperti di Lampiran A. Harga paip dan faktor pelarasan diperoleh dari Jabatan Bekalan Air (JBA) dan Jabatan Perkhidmatan Pembedungan (JPP).

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 ON THE AVERAGE UNIT PRICES FOR STEEL BARS, CEMENT, BITUMEN, FUEL OIL, DIESEL, SAND, AGGREGATES, PREMIX, FABRIC REINFORCEMENT, GUARDRAIL, WATER PIPE AND SEWERAGE PIPE**

The price for diesel is government controlled price as established by the Ministry of Domestic Trade, Co-operatives and Consumerism. The price is ex-Kuala Lumpur.

Starting from December 2006, the prices for steel bars and cement published in this Special Release 1 are obtained from Construction Industry Development Board Malaysia (CIDB).

Prices are reported according to 3 regions in Peninsular Malaysia 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

Starting from June 2008, the price for fuel oil is obtained from Shell Malaysia. Starting from July 2007, the bitumen 80/100 penetration is based on the average ex-Port Klang price quoted to contractors by the main suppliers.

With effect from August 2008, the prices for sand, aggregates and fabric reinforcement are published in this Special Release 1. The prices for fabric reinforcement are obtained from CIDB.

The prices for Premix Asphaltic Concrete and Premix Bituminous Macadam are published in this Special Release 1 since September 2008.

As from October 2008, the prices for guardrail are published in this Special Release 1. The prices until December 2009 were obtained from CIDB. Starting from January 2010, the guardrail prices are obtained from the price collection conducted by Department of Statistics, Malaysia. The prices published are ex-factory prices inclusive of transportation charges.

With effect from November 2008, the prices for water pipe and sewerage pipe are published in this Special Release 1. Prices are published for Peninsular Malaysia only. The adjustment factors for the other categories and sizes not published in this Special Release 1 are shown in Appendix A. The prices of pipes and adjustment factors are obtained from Jabatan Bekalan Air (JBA) and Jabatan Perkhidmatan Pembetulan (JPP).

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



**JADUAL - JADUAL**  
*TABLES*



**Jadual 1 - Harga Unit Purata Bagi Bar Keluli dan Simen**  
*Table 1 - Average Unit Prices for Steel Bars and Cement*

Perkara <i>Item</i>	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 Setan Metrik</b> <i>RM Per Metric Ton</i>		
10mm (3/8")	2009 DIS	2183.33	2200.00	2221.67
	2010 JAN	2190.00	2206.67	2198.33
	FEB	2300.00	2291.67	2291.67
	MAC	2398.33	2405.00	2400.00
	APR	2616.67	2633.33	2630.00
	MEI	2573.33	2581.67	2581.67
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
12mm (1/2")	2009 DIS	2183.33	2200.00	2221.67
	2010 JAN	2190.00	2206.67	2198.33
	FEB	2300.00	2291.67	2291.67
	MAC	2398.33	2405.00	2400.00
	APR	2566.67	2583.33	2580.00
	MEI	2540.00	2548.33	2548.33
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
16mm (5/8")	2009 DIS	2083.33	2100.00	2121.67
	2010 JAN	2123.33	2140.00	2131.67
	FEB	2200.00	2191.67	2191.67
	MAC	2300.00	2305.00	2300.00
	APR	2466.67	2483.33	2471.67
	MEI	2440.00	2448.33	2448.33
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 1 (Samb.) - Harga Unit Purata Bagi Bar Keluli dan Simen**  
*Table 1 (Cont'd.) - Average Unit Prices for Steel Bars and Cement*

Perkara <i>Item</i>	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 (Samb.)</b> <i>Mild Steel Round Bars BS-4449 (Cont'd.)</i>		<b>RM Setan Metrik</b> <i>RM Per Metric Ton</i>		
20mm - 25mm (3/4" - 1")	2009 DIS	2150.00	2166.67	2188.33
	2010 JAN	2145.56	2162.22	2153.89
	FEB	2244.45	2236.11	2236.11
	MAC	2344.45	2349.45	2344.45
	APR	2561.11	2577.78	2566.11
	MEI	2501.11	2509.45	2509.45
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	32mm (1 1/4")	2009 DIS	2150.00	2166.67
2010 JAN		2156.67	2173.33	2165.00
FEB		2250.00	2241.67	2241.67
MAC		2366.67	2371.67	2366.67
APR		2583.33	2600.00	2588.33
MEI		2523.33	2531.67	2531.67
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>(2) Mycon 60</b> <i>High Tensile Deformed Bars</i>				
10mm (3/6")	2009 DIS	2183.33	2200.00	2221.67
	2010 JAN	2190.00	2206.67	2198.33
	FEB	2300.00	2291.67	2291.67
	MAC	2398.33	2396.67	2400.00
	APR	2616.67	2633.33	2630.00
	MEI	2573.33	2581.67	2581.67
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 1 (Samb.) - Harga Unit Purata Bagi Bar Keluli dan Simen**  
*Table 1 (Cont'd.) - Average Unit Prices for Steel Bars and Cement*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(2) Mycon 60 (Samb.)</b>		<b>RM Setan Metrik</b>		
<i>High Tensile Deformed Bars (Cont'd.)</i>		<i>RM Per Metric Ton</i>		
12mm (1/2")	2009 DIS	2183.33	2200.00	2221.67
	2010 JAN	2190.00	2206.67	2198.33
	FEB	2300.00	2291.67	2291.67
	MAC	2398.33	2396.67	2400.00
	APR	2575.00	2583.33	2580.00
	MEI	2540.00	2548.33	2548.33
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
16mm - 25mm (5/8" - 1")	2009 DIS	2083.33	2100.00	2121.67
	2010 JAN	2090.00	2106.67	2098.33
	FEB	2200.22	2191.89	2208.55
	MAC	2300.00	2296.67	2316.67
	APR	2466.67	2483.33	2471.67
	MEI	2440.00	2448.33	2448.33
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
32mm (1 1/4")	2009 DIS	2083.33	2100.00	2121.67
	2010 JAN	2090.00	2106.67	2098.33
	FEB	2200.00	2191.67	2208.33
	MAC	2300.00	2296.67	2316.67
	APR	2466.67	2483.33	2471.67
	MEI	2440.00	2448.33	2448.33
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 1 (Samb.) - Harga Unit Purata Bagi Bar Keluli dan Simen**  
*Table 1 (Cont'd.) - Average Unit Prices for Steel Bars and Cement*

Perkara <i>Item</i>	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 Sekarang 50 Kg.</b> <i>RM Per 50 Kg. Bag</i>		
Portland Biasa	2009 DIS	13.17	13.88	14.42
BS 12	2010 JAN	13.43	13.88	14.21
Ordinary Portland	FEB	13.42	13.88	14.21
BS 12	MAC	13.52	13.75	13.92
	APR	13.52	13.75	13.88
	MEI	14.75	15.25	15.58
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 2 - Harga Unit Purata Bagi Bitumen, Minyak Bahan Api dan Diesel**  
*Table 2 - Average Unit Prices For Bitumen, Fuel Oil and Diesel*

Perkara <i>Item</i>	Tempoh <i>Period</i>	Semenanjung Malaysia <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>	2009 DIS	1.65
<b>Medium</b>	2010 JAN	1.80
	FEB	1.73
	MAC	1.69
	APR	1.75
	MEI	1.75
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	

Mulai Jun 2008, harga minyak bahan api diperolehi dari Shell Malaysia.  
*Starting from June 2008, the fuel oil price is obtained from Shell Malaysia.*

<b>(2) Bitumen Penembusan 80/100</b> <i>Bitumen 80/100 Penetration</i>		<b>RM Setan Metrik</b> <i>RM Per Metric Ton</i>
	2009 DIS	1850.00
	2010 JAN	1900.00
	FEB	1850.00
	MAC	1850.00
	APR	1950.00 <sup>R</sup>
	MEI	1750.00
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	

Mulai Julai 2007, harga Bitumen Penembusan 80/100 adalah berdasarkan harga purata ex-Port Klang (pada setiap 1hb).  
*Starting from July 2007, the Bitumen 80/100 Penetration is based on average ex-Port Klang (first day of the month).*

**R = Kemaskini / Revised**

Jadual 2 (Samb.) - Harga Unit Purata Bagi Bitumen, Minyak Bahan Api dan Diesel  
 Table 2 (Cont'd.) - Average Unit Prices For Bitumen, Fuel Oil and Diesel

Perkara <i>Item</i>	Tempoh <i>Period</i>	Semenanjung Malaysia <i>Peninsular Malaysia</i>	
(2) Minyak Gas Automotif <i>Automotive Gas Oil</i>		Runcit* <i>Retail</i>	RM Seliter <i>RM Per Litre</i> Sebenar <i>Actual</i>
<b>Diesel</b> <i>Diesel</i>	2009 JAN	1.700	1.730
	FEB	1.700	1.766
	MAC	1.700	1.849
	APR	1.700	1.967
	MEI	1.700	2.058
	JUN	1.700	2.339
	JUL	1.700	2.227
	OGO	1.700	2.393
	SEP	1.700	2.296
	OKT	1.700	2.368
	NOV	1.700	2.447
	DIS	1.700	2.395
	2010 JAN	1.700	2.455
	FEB	1.700	2.421
	MAC	1.700	2.496
	APR	1.700	2.571
	MEI	1.700	2.462
	JUN		
	JUL		
	OGO		
	SEP		
	OKT		
	NOV		
	DIS		

Harga diesel diperoleh daripada Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan. Harga adalah ex-Kuala Lumpur.

*Diesel price is obtained from Ministry of Domestic Trade, Co-operatives and Consumerism. The price 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 Pembedungan**

*Table 3 - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement,  
Guardrail and Water Pipe & Sewerage Pipe*

Perkara <i>Item</i>	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 Setan Metrik</b> <i>RM Per Metric Ton</i>		
<b>Pasir Sungai</b> <i>River Sand</i>	2009 DIS	37.00	37.20	20.80
	2010 JAN	36.60	34.20	20.80
	FEB	36.60	34.30	20.80
	MAC	36.60	34.30	20.80
	APR	36.60	34.30	20.80
	MEI	36.60	34.00	20.80
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>Pasir Lombong</b> <i>Mining Sand</i>	2009 DIS	35.40	39.30	29.30
	2010 JAN	35.40	37.90	29.30
	FEB	35.40	37.90	29.30
	MAC	35.40	37.90	29.30
	APR	35.40	38.30	29.30
	MEI	35.40	38.30	29.30
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>(2) Batu Baur</b> <i>Aggregates</i>				
<b>Granite</b> <b>10mm (3/8")</b>	2009 DIS	30.00	25.90	24.50
<i>Granite</i> <i>10mm (3/8")</i>	2010 JAN	30.00	25.90	24.50
	FEB	30.00	26.10	24.50
	MAC	30.00	25.90	24.50
	APR	30.00	26.00	24.50
	MEI	30.00	26.00	24.50
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**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 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region			
		Utara North	Tengah Central	Timur East	
<b>(2) Batu Baur (Samb.) Aggregates (Cont'd.)</b>		<b>RM Setan Metrik RM Per Metric Ton</b>			
Granite 20mm (3/4")	2009 DIS	28.10	24.40	27.30	
	2010	JAN	28.10	24.60	27.30
		FEB	28.10	24.70	27.30
		MAC	28.10	24.80	27.30
		APR	28.10	24.70	27.30
		MEI	28.10	24.80	27.30
		JUN			
		JUL			
		OGO			
		SEP			
		OKT			
		NOV			
		DIS			
Granite 40mm (1 1/2")	2009 DIS	30.40	26.20	23.80	
	2010	JAN	30.40	26.20	23.80
		FEB	30.40	26.20	23.80
		MAC	30.40	26.20	23.80
		APR	30.40	26.20	23.80
		MEI	30.40	26.20	23.80
		JUN			
		JUL			
		OGO			
		SEP			
		OKT			
		NOV			
		DIS			
<b>Crushed Aggregate (Crusher Run)</b>					
<i>Crushed Aggregate (Crusher Run)</i>					
Crusher Run	2009 DIS	24.40	21.00	16.50	
	2010	JAN	24.40	20.90	16.50
		FEB	24.40	21.00	16.50
		MAC	24.40	21.00	16.50
		APR	24.40	21.10	16.50
		MEI	24.40	21.00	16.50
		JUN			
		JUL			
		OGO			
		SEP			
		OKT			
		NOV			
		DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Asphaltic Concrete</b> <i>Premix Asphaltic Concrete</i>		<b>RM Setan Metrik</b> <i>RM Per Metric Ton</i>		
<b>AC 10(Wearing Course)</b>	2009 DIS	150.80	157.60	173.00
	2010 JAN	154.80	161.00	173.00
	FEB	154.80	162.00	182.50
	MAC	156.80	162.00	184.00
	APR	157.80	160.90	184.00
	MEI	157.80	160.10	184.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>AC 14(Wearing Course)</b>	2009 DIS	149.80	157.90	162.60
	2010 JAN	153.20	158.70	162.60
	FEB	153.50	162.90	171.90
	MAC	155.20	162.80	172.20
	APR	156.00	160.80	172.20
	MEI	156.00	161.00	172.20
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>AC 28 (Binder Course)</b>	2009 DIS	147.50	155.20	158.30
	2010 JAN	150.80	157.80	158.30
	FEB	151.20	158.60	170.50
	MAC	152.80	158.20	168.70
	APR	153.70	159.20	168.70
	MEI	153.70	158.60	168.70
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Asphaltic Concrete (Samb.)</b>		<b>RM Setan Metrik</b>		
<i>Premix Asphaltic Concrete (Cont'd.)</i>		<i>RM Per Metric Ton</i>		
<b>ACW 20 (Wearing Course)</b>	2009 DIS	151.80	155.50	159.60
	2010 JAN	154.40	156.80	159.60
	FEB	155.80	158.20	168.90
	MAC	157.80	157.40	167.20
	APR	157.80	160.00	167.20
	MEI	157.80	158.70	167.20
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Bituminous Macadam</b> <i>Premix Bituminous Macadam</i>		<b>RM Setan Metrik</b> <i>RM Per Metric Ton</i>		
<b>BMR40 (Bound Roadbase)</b>	2009 DIS	141.00	144.90	144.00
	2010 JAN	143.50	146.20	144.00
	FEB	143.50	146.20	144.00
	MAC	156.00	146.20	144.00
	APR	156.00	146.20	144.00
	MEI	156.00	144.90	144.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>BMR28 (Bound Roadbase)</b>	2009 DIS	142.00	150.80	153.00
	2010 JAN	143.50	152.10	153.00
	FEB	143.50	152.10	153.00
	MAC	157.50	152.10	153.00
	APR	157.50	152.10	153.00
	MEI	157.50	150.80	153.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>BML10 (Levelling Course)</b>	2009 DIS	152.00	163.70	155.00
	2010 JAN	154.50	165.30	155.00
	FEB	154.50	165.30	163.00
	MAC	159.50	165.30	168.00
	APR	159.50	165.30	168.00
	MEI	159.50	163.70	168.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Bituminous Macadam (Samb.)</b>		<b>RM Setan Metrik</b>		
<i>Premix Bituminous Macadam (Cont'd.)</i>		<i>RM Per Metric Ton</i>		
<b>BMB28 (Binder Course)</b>	2009 DIS	148.70	159.00	146.50
	2010 JAN	150.30	160.70	146.50
	FEB	151.00	160.70	149.00
	MAC	154.30	160.70	153.00
	APR	154.30	160.70	153.00
	MEI	154.30	159.00	153.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>BMB20 (Binder Course)</b>	2009 DIS	150.30	153.20	162.00
	2010 JAN	152.00	155.20	162.00
	FEB	152.00	155.20	169.00
	MAC	155.30	155.20	173.00
	APR	155.30	155.20	173.00
	MEI	156.00	154.40	173.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>BMW14 (Wearing Course)</b>	2009 DIS	151.70	152.50	163.00
	2010 JAN	153.30	155.00	163.00
	FEB	154.00	155.00	170.50
	MAC	157.30	155.00	173.50
	APR	157.30	155.00	173.50
	MEI	157.30	154.20	173.50
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(3) Premix Bituminous Macadam (Samb.)</b>		<b>RM Setan Metrik</b>		
<i>Premix Bituminous Macadam (Cont'd.)</i>		<i>RM Per Metric Ton</i>		
<b>BMW20 (Wearing Course)</b>	2009 DIS	152.00	148.00	157.00
	2010 JAN	154.50	150.90	157.00
	FEB	154.50	150.90	162.00
	MAC	159.50	150.90	164.00
	APR	159.50	150.90	164.00
	MEI	159.50	150.00	164.00
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(4) Fabric Reinforcement</b>			<b>RM Per Kg</b>	
<i>Fabric Reinforcement</i>			<i>RM Per Kg</i>	
<b>A4, MS145</b>	2009 DIS	2.84	2.84	2.84
	2010 JAN	2.76	2.84	2.80
	FEB	2.77	2.71	2.73
	MAC	3.18	3.09	3.21
	APR	3.32	3.26	3.35
	MEI	3.45	3.38	3.47
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>A5, MS145</b>	2009 DIS	2.81	2.81	2.82
	2010 JAN	2.74	2.81	2.77
	FEB	2.75	2.69	2.71
	MAC	3.15	3.06	3.18
	APR	3.29	3.23	3.32
	MEI	3.41	3.35	3.44
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
<b>A6, MS145</b>	2009 DIS	2.52	2.52	2.53
	2010 JAN	2.46	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.98
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			



**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>	2009 DIS	2.52	2.52	2.53
	2010 JAN	2.45	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.97
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>A8, MS145</b>	2009 DIS	2.52	2.52
2010 JAN		2.46	2.52	2.49
FEB		2.47	2.41	2.43
MAC		2.83	2.75	2.85
APR		2.95	2.90	2.98
MEI		3.06	3.01	3.09
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>A9, MS145</b>		2009 DIS	2.52	2.52
	2010 JAN	2.45	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.97
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>A10, MS145</b>	2009 DIS	2.52	2.52	2.53
	2010 JAN	2.45	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.97
	MEI	3.06	3.00	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>B5, MS145</b>	2009 DIS	2.80	2.80
2010 JAN		2.73	2.80	2.77
FEB		2.74	2.68	2.70
MAC		3.14	3.05	3.17
APR		3.28	3.22	3.31
MEI		3.40	3.34	3.43
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>B6, MS145</b>		2009 DIS	2.52	2.52
	2010 JAN	2.46	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.98
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>	2009 DIS	2.52	2.52	2.53
	2010 JAN	2.45	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.97
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>B8, MS145</b>	2009 DIS	2.53	2.53
2010 JAN		2.46	2.53	2.49
FEB		2.47	2.41	2.43
MAC		2.83	2.75	2.85
APR		2.95	2.90	2.98
MEI		3.07	3.01	3.09
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>B9, MS145</b>		2009 DIS	2.52	2.52
	2010 JAN	2.46	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.98
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, *Premix*, *Fabric Reinforcement*, *Guardrail* dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara <i>Item</i>	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>		<b>RM Per Kg</b>		
<i>Fabric Reinforcement (Cont'd.)</i>		<i>RM Per Kg</i>		
<b>B10, MS145</b>	2009 DIS	2.52	2.52	2.52
	2010 JAN	2.45	2.52	2.48
	FEB	2.46	2.41	2.43
	MAC	2.82	2.74	2.85
	APR	2.95	2.89	2.97
	MEI	3.06	3.00	3.08
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>B12, MS145</b>	2009 DIS	2.79	2.79
2010 JAN		2.71	2.79	2.75
FEB		2.73	2.66	2.69
MAC		3.12	3.04	3.15
APR		3.26	3.20	3.29
MEI		3.39	3.32	3.41
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>C5, MS145</b>		2009 DIS	2.81	2.81
	2010 JAN	2.73	2.81	2.77
	FEB	2.74	2.68	2.70
	MAC	3.14	3.06	3.17
	APR	3.28	3.22	3.31
	MEI	3.41	3.34	3.43
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>C6, MS145</b>	2009 DIS	2.80	2.80	2.81
	2010 JAN	2.73	2.80	2.77
	FEB	2.74	2.68	2.70
	MAC	3.14	3.05	3.17
	APR	3.28	3.22	3.31
	MEI	3.40	3.34	3.43
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>C7, MS145</b>	2009 DIS	2.80	2.80
2010 JAN		2.73	2.80	2.77
FEB		2.74	2.68	2.70
MAC		3.14	3.05	3.17
APR		3.28	3.22	3.31
MEI		3.40	3.34	3.43
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>C8, MS145</b>		2009 DIS	2.80	2.80
	2010 JAN	2.72	2.80	2.76
	FEB	2.73	2.67	2.69
	MAC	3.13	3.05	3.16
	APR	3.27	3.21	3.30
	MEI	3.40	3.33	3.42
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>C9, MS145</b>	2009 DIS	2.80	2.80	2.80
	2010 JAN	2.72	2.80	2.76
	FEB	2.74	2.67	2.70
	MAC	3.14	3.05	3.16
	APR	3.27	3.21	3.30
	MEI	3.40	3.34	3.43
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>C10, MS145</b>	2009 DIS	2.80	2.80
2010 JAN		2.73	2.80	2.76
FEB		2.74	2.68	2.70
MAC		3.14	3.05	3.17
APR		3.28	3.21	3.30
MEI		3.40	3.34	3.43
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>DA4, MS145</b>		2009 DIS	2.83	2.83
	2010 JAN	2.75	2.83	2.79
	FEB	2.77	2.70	2.72
	MAC	3.17	3.08	3.20
	APR	3.31	3.24	3.34
	MEI	3.43	3.37	3.46
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>DA5, MS145</b>	2009 DIS	2.81	2.81	2.82
	2010 JAN	2.74	2.81	2.77
	FEB	2.75	2.69	2.71
	MAC	3.15	3.06	3.18
	APR	3.29	3.23	3.32
	MEI	3.41	3.35	3.44
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>DA6, MS145</b>	2009 DIS	2.52	2.52
2010 JAN		2.46	2.52	2.49
FEB		2.47	2.41	2.43
MAC		2.83	2.75	2.85
APR		2.95	2.89	2.98
MEI		3.06	3.01	3.09
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>DA7, MS145</b>		2009 DIS	2.52	2.52
	2010 JAN	2.45	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.89	2.97
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara 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>DA8, MS145</b>	2009 DIS	2.52	2.52	2.53
	2010 JAN	2.46	2.52	2.49
	FEB	2.47	2.41	2.43
	MAC	2.83	2.75	2.85
	APR	2.95	2.90	2.98
	MEI	3.06	3.01	3.09
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			
	<b>DA9, MS145</b>	2009 DIS	2.52	2.52
2010 JAN		2.45	2.52	2.49
FEB		2.47	2.41	2.43
MAC		2.83	2.75	2.85
APR		2.95	2.89	2.97
MEI		3.06	3.00	3.09
JUN				
JUL				
OGO				
SEP				
OKT				
NOV				
DIS				
<b>DA10, MS145</b>		2009 DIS	2.51	2.51
	2010 JAN	2.44	2.51	2.48
	FEB	2.45	2.40	2.42
	MAC	2.81	2.73	2.84
	APR	2.94	2.88	2.96
	MEI	3.05	2.99	3.07
	JUN			
	JUL			
	OGO			
	SEP			
	OKT			
	NOV			
	DIS			



**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region		
		Utara North	Tengah Central	Timur East
<b>(5) Guardrail</b>			<b>RM Per Meter</b>	
<i>Guardrail</i>			<i>RM Per Metre</i>	
<b>Single Mounted</b>	<b>2009 DIS</b>	<b>197.38</b>	<b>197.13</b>	<b>224.00</b>
<b>i) 1.95m Post Spacing</b>	<b>2010 JAN</b>	<b>142.85</b>	<b>144.25</b>	<b>146.60</b>
	<b>FEB</b>	<b>142.85</b>	<b>144.25</b>	<b>146.60</b>
	<b>MAC</b>	<b>142.85</b>	<b>144.25</b>	<b>146.60</b>
	<b>APR</b>	<b>147.10</b>	<b>148.55</b>	<b>151.00</b>
	<b>MEI</b>	<b>147.10</b>	<b>148.55</b>	<b>151.00</b>
	<b>JUN</b>			
	<b>JUL</b>			
	<b>OGO</b>			
	<b>SEP</b>			
	<b>OKT</b>			
	<b>NOV</b>			
	<b>DIS</b>			
<b>ii) 3.80m Post Spacing</b>	<b>2009 DIS</b>	<b>145.35</b>	<b>145.12</b>	<b>168.13</b>
	<b>2010 JAN</b>	<b>99.45</b>	<b>100.45</b>	<b>102.10</b>
	<b>FEB</b>	<b>99.45</b>	<b>100.45</b>	<b>102.10</b>
	<b>MAC</b>	<b>99.45</b>	<b>100.45</b>	<b>102.10</b>
	<b>APR</b>	<b>102.40</b>	<b>103.50</b>	<b>105.20</b>
	<b>MEI</b>	<b>102.40</b>	<b>103.50</b>	<b>105.20</b>
	<b>JUN</b>			
	<b>JUL</b>			
	<b>OGO</b>			
	<b>SEP</b>			
	<b>OKT</b>			
	<b>NOV</b>			
	<b>DIS</b>			

**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 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, *Premix*, *Fabric Reinforcement*,  
Guardrail dan Paip Air & Paip Pembedungan**  
*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement,  
Guardrail and Water Pipe & Sewerage Pipe*

Perkara <i>Item</i>	Tempoh <i>Period</i>	Kawasan <i>Region</i>
		Semenanjung Malaysia <i>Peninsular Malaysia</i>
(6a) Paip Air (Samb.) <i>Water Pipe(Cont'd.)</i>		RM Per Meter <i>RM Per Metre</i>
Ductile Iron Pipe 200 mm	2009 DIS	153.00
	2010 JAN	153.00
	FEB	153.00
	MAC	153.00
	APR	153.00
	MEI	153.00
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
<b>(6b) Paip Pembedungan (Samb.) Sewerage Pipe (Cont'd.)</b>		<b>RM Per Meter RM Per Metre</b>
<b>Mild Steel Pipe 300mm</b>	2009 DIS	195.57
	2010 JAN	195.57
	FEB	195.52
	MAC	195.52
	APR	195.52
	MEI	195.52
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	
<b>Ductile Iron Pipe 250mm</b>	2009 DIS	212.00
	2010 JAN	212.00
	FEB	202.00
	MAC	202.00
	APR	202.00
	MEI	202.00
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	
<b>High Density Polyethylene (HDPE) Pipe i. Profile Pipe 150mm</b>	2009 DIS	17.05
	2010 JAN	17.05
	FEB	17.05
	MAC	17.05
	APR	17.05
	MEI	17.05
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
<b>(6b) Paip Pembedungan (Samb.) Sewerage Pipe (Cont'd.)</b>		<b>RM Per Meter RM Per Metre</b>
High Density Polyethylene (HDPE) Pipe ii. Solid Pipe 250mm	2009 DIS	60.17
	2010 JAN	60.17
	FEB	60.17
	MAC	60.17
	APR	60.17
	MEI	60.17
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	
Vitrified Clay Pipe i. Standard Pipe 225mm	2009 DIS	59.00
	2010 JAN	59.00
	FEB	54.00
	MAC	54.00
	APR	118.00
	MEI	118.00
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	
ii. Jacking Pipe 225mm	2009 DIS	330.00
	2010 JAN	330.00
	FEB	330.00
	MAC	330.00
	APR	330.00
	MEI	330.00
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembedungan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara <i>Item</i>	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>Reinforced Concrete Pipe</b> <b>i. Without Lining</b> <b>900mm</b>	2009 DIS	271.30
	2010 JAN	271.30
	FEB	271.30
	MAC	271.30
	APR	111.72
	MEI	111.72
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	
	<b>ii. With Lining (High Alumina)</b> <b>900mm</b>	2009 DIS
2010 JAN		271.30
FEB		271.30
MAC		271.30
APR		111.72
MEI		111.72
JUN		
JUL		
OGO		
SEP		
OKT		
NOV		
DIS		
<b>iii. With Lining (Sacrificial Lining)</b> <b>900mm</b>		2009 DIS
	2010 JAN	271.30
	FEB	271.30
	MAC	271.30
	APR	111.72
	MEI	111.72
	JUN	
	JUL	
	OGO	
	SEP	
	OKT	
	NOV	
	DIS	

**Jadual 3 (Samb.) - Harga Unit Purata Bagi Pasir, Batu Baur, Premix, Fabric Reinforcement, Guardrail dan Paip Air & Paip Pembetulan**

*Table 3 (Cont'd.) - Average Unit Prices for Sand, Aggregates, Premix, Fabric Reinforcement, Guardrail and Water Pipe & Sewerage Pipe*

Perkara Item	Tempoh Period	Kawasan Region
		Semenanjung Malaysia Peninsular Malaysia
<b>(6b) Paip Pembetulan (Samb.) Sewerage Pipe (Cont'd.)</b>		<b>RM Per Meter RM Per Metre</b>
<b>ABS Pipe</b>	<b>2009 DIS</b>	<b>15.71</b>
<b>i. Gravity</b>	<b>2010 JAN</b>	<b>15.71</b>
<b>110mm</b>	<b>FEB</b>	<b>29.30</b>
	<b>MAC</b>	<b>29.30</b>
	<b>APR</b>	<b>29.31</b>
	<b>MEI</b>	<b>29.31</b>
	<b>JUN</b>	
	<b>JUL</b>	
	<b>OGO</b>	
	<b>SEP</b>	
	<b>OKT</b>	
	<b>NOV</b>	
	<b>DIS</b>	
<b>ii. Force Main</b>	<b>2009 DIS</b>	<b>130.00</b>
<b>225mm</b>	<b>2010 JAN</b>	<b>130.00</b>
	<b>FEB</b>	<b>100.86</b>
	<b>MAC</b>	<b>100.86</b>
	<b>APR</b>	<b>82.76</b>
	<b>MEI</b>	<b>82.76</b>
	<b>JUN</b>	
	<b>JUL</b>	
	<b>OGO</b>	
	<b>SEP</b>	
	<b>OKT</b>	
	<b>NOV</b>	
	<b>DIS</b>	

**LAMPIRAN**  
*APPENDIX*





**JADUAL FAKTOR PELARASAN BAGI PAIP AIR DAN PAIP PEMBETUNGAN**  
*Adjustment Factor Table For Water Pipe and Sewerage Pipe*

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

**JADUAL FAKTOR PELARASAN BAGI PAIP AIR DAN PAIP PEMBETUNGAN**  
*Adjustment Factor Table For Water Pipe and Sewerage Pipe*

<b>Kategori dan Saiz Paip</b> <i>Categories and Sizes of Pipes</i>	<b>Faktor Pelarasan</b> <i>Adjustment Factor</i>
<b>PAIP PEMBETUNGAN</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 PEMBETUNGAN**  
*Adjustment Factor Table For Water Pipe and Sewerage Pipe*

<b>Kategori dan Saiz Paip</b> <i>Categories and Sizes of Pipes</i>	<b>Faktor Pelarasan</b> <i>Adjustment Factor</i>
<b>PAIP PEMBETUNGAN</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

**HARGA :** RM 2.00  
*PRICE*

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