



JABATAN PERDANA MENTERI  
JABATAN PERANGKAAN MALAYSIA

SEMENANJUNG MALAYSIA  
PENINSULAR MALAYSIA

SIARAN KHAS  
Special Release

**1**

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

**MAC 2022**  
MARCH

**Pemakluman / Announcement:**

Jabatan Perangkaan Malaysia sedang menjalankan Survei Pendapatan, Perbelanjaan Isi Rumah dan Kemudahan Asas (HIES/BA) 2022 bermula dari 1 Januari 2022 sehingga 31 Disember 2022.

*Department of Statistics Malaysia is conducting Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1st January 2022 until 31st December 2022.*

Dimaklumkan bahawa Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah  
*"Connecting the World with Data We Can Trust"*

*Please be informed that the Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20 each year. MyStats Day theme is  
"Connecting the World with Data We Can Trust"*

**JABATAN PERANGKAAN MALAYSIA**  
DEPARTMENT OF STATISTICS MALAYSIA

Tarikh: **8 April 2022**  
Date: **8 April 2022**

**Diterbitkan dan dicetak oleh / Published and printed by:**

**Jabatan Perangkaan Malaysia**

***Department of Statistics, Malaysia***

Blok C6, Kompleks C,

Pusat Pentadbiran Kerajaan Persekutuan,

62514 Putrajaya,

**MALAYSIA**

Tel. : 03-8885 7000

Faks : 03-8888 9248

Portal : <https://www.dosm.gov.my>

Facebook / Twitter / Instagram : StatsMalaysia

Emel / Email : info@dosm.gov.my (pertanyaan umum / *general enquiries*)  
data@dosm.gov.my (pertanyaan & permintaan data /  
*data request & enquiries*)

Harga / Price : RM2.00

Diterbitkan pada April 2022 / *Published on April 2022*

**Hakcipta terpelihara / All rights reserved.**

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

“Sumber: Jabatan Perangkaan Malaysia”.

*No part of this publication may be reproduced or distributed in any form or by any means or stored in data base without the prior written permission from Department of Statistics, Malaysia. Users reproducing content of this publication with or without adaptation should quote the following:*

*“Source: Department of Statistics, Malaysia.”*

**ISSN 0127 - 8568**

# KANDUNGAN CONTENTS

|                                                                                                                                                                                                                                                                                     | <b>Muka Surat</b><br><i>Page</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Jadual 1</b> : <b>Harga unit purata bagi bar keluli dan simen</b><br><i>Table 1 : Average unit prices for steel bars and cement</i>                                                                                                                                              | 7                                |
| <b>Jadual 2</b> : <b>Harga unit purata bagi minyak bahan api, bitumen dan diesel</b><br><i>Table 2 : Average unit prices for fuel oil, bitumen and diesel</i>                                                                                                                       | 11                               |
| <b>Jadual 3</b> : <b>Harga unit purata bagi :</b><br><i>Table 3 : Average unit prices for :</i><br>-Pasir/ <i>Sand</i><br>-Batu baur/ <i>Aggregates</i><br>-Premix<br>-Fabric Reinforcement<br>-Guardrail<br>-Paip air/ <i>Water pipe</i><br>-Paip pembetulan/ <i>Sewerage pipe</i> | 13                               |
| <b>Nota Teknikal</b><br><i>Technical Notes</i>                                                                                                                                                                                                                                      | 39                               |
| <b>Lampiran A</b> : <b>Jadual faktor pelarasan bagi paip air &amp; paip pembetulan</b><br><i>Appendix A : Adjustment factor table for water pipe &amp; sewerage pipe</i>                                                                                                            | 43                               |
| <b>Lampiran B</b> : <b>Sasaran Tarikh Pengumuman Siaran Khas 1 (Untuk Kerja-kerja Kejuruteraan Awam), Semenanjung Malaysia, 2022</b><br><i>Appendix B : Scheduled Release Dates for Special Release 1 (For Civil Engineering Works), Peninsular Malaysia, 2022</i>                  | 52                               |

**Muka surat ini sengaja dibiarkan kosong.**

*This page is deliberately left blank.*

**JADUAL**  
*TABLE*

**Muka surat ini sengaja dibiarkan kosong.**

*This page is deliberately left blank.*

**Jadual 1: Harga unit purata bagi bar keluli dan simen**

*Table 1: Average unit prices for steel bars and cement*

| Item                                                                               | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                             |                          |                      |
|------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------|--------------------------|----------------------|
|                                                                                    |                         | Utara<br><i>North</i>                                | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| <b>1.1 Bar Bulat Keluli Lembut BS-4449</b><br><i>Mild Steel Round Bars BS-4449</i> |                         | <b>RM Per Tan Metrik</b><br><i>RM Per Metric Ton</i> |                          |                      |
| <b>1.1.1 10mm (3/8")</b>                                                           | <b>2021 Mac</b>         | 2716.86                                              | 2427.91                  | 2965.98              |
|                                                                                    | <b>Apr</b>              | 2786.63                                              | 2463.45                  | 2989.22              |
|                                                                                    | <b>Mei</b>              | 2872.63                                              | 2463.45                  | 2989.22              |
|                                                                                    | <b>Jun</b>              | 2943.05                                              | 2464.24                  | 3057.57              |
|                                                                                    | <b>Jul</b>              | 3128.59                                              | 2464.24                  | 3153.31              |
|                                                                                    | <b>Ogos</b>             | 3154.45                                              | 2464.24                  | 3189.33              |
|                                                                                    | <b>Sept</b>             | 3154.45                                              | 2479.22                  | 3197.08              |
|                                                                                    | <b>Okt</b>              | 3202.33                                              | 2503.03                  | 3197.08              |
|                                                                                    | <b>Nov</b>              | 3191.53                                              | 2558.64                  | 3205.79              |
|                                                                                    | <b>Dis</b>              | 3197.01                                              | 2635.11                  | 3205.79              |
|                                                                                    | <b>2022 Jan</b>         | 3197.01                                              | 2713.66 <sup>r</sup>     | 3205.79              |
|                                                                                    | <b>Feb</b>              | 3197.01                                              | 2393.98 <sup>r</sup>     | 3288.11              |
|                                                                                    | <b>Mac</b>              | 3269.36                                              | 2401.54                  | 3336.83              |
| <b>1.1.2 12mm (1/2")</b>                                                           | <b>2021 Mac</b>         | 2729.08                                              | 2429.89                  | 2832.72              |
|                                                                                    | <b>Apr</b>              | 2800.08                                              | 2476.91                  | 2855.83              |
|                                                                                    | <b>Mei</b>              | 2886.30                                              | 2476.91                  | 2855.83              |
|                                                                                    | <b>Jun</b>              | 2956.82                                              | 2477.69                  | 2923.81              |
|                                                                                    | <b>Jul</b>              | 3138.36                                              | 2477.69                  | 3021.99              |
|                                                                                    | <b>Ogos</b>             | 3164.39                                              | 2477.69                  | 3064.33              |
|                                                                                    | <b>Sept</b>             | 3164.39                                              | 2507.68                  | 3072.08              |
|                                                                                    | <b>Okt</b>              | 3212.57                                              | 2534.08                  | 3072.08              |
|                                                                                    | <b>Nov</b>              | 3201.73                                              | 2586.52                  | 3080.79              |
|                                                                                    | <b>Dis</b>              | 3207.25                                              | 2642.48                  | 3080.79              |
|                                                                                    | <b>2022 Jan</b>         | 3207.25                                              | 2726.28 <sup>r</sup>     | 3080.79              |
|                                                                                    | <b>Feb</b>              | 3207.25                                              | 2969.90 <sup>r</sup>     | 3288.11              |
|                                                                                    | <b>Mac</b>              | 3279.90                                              | 3047.67                  | 3336.83              |
| <b>1.1.3 16mm (5/8")</b>                                                           | <b>2021 Mac</b>         | 2714.49                                              | 2417.77                  | 2768.42              |
|                                                                                    | <b>Apr</b>              | 2803.04                                              | 2463.39                  | 2804.77              |
|                                                                                    | <b>Mei</b>              | 2889.30                                              | 2463.39                  | 2804.77              |
|                                                                                    | <b>Jun</b>              | 2959.81                                              | 2463.39                  | 2870.43              |
|                                                                                    | <b>Jul</b>              | 3136.33                                              | 2463.39                  | 2966.09              |
|                                                                                    | <b>Ogos</b>             | 3162.37                                              | 2463.39                  | 2971.68              |
|                                                                                    | <b>Sept</b>             | 3162.37                                              | 2490.50                  | 2989.05              |
|                                                                                    | <b>Okt</b>              | 3210.55                                              | 2526.75                  | 2989.05              |
|                                                                                    | <b>Nov</b>              | 3220.52                                              | 2583.88                  | 2995.82              |
|                                                                                    | <b>Dis</b>              | 3226.04                                              | 2660.63                  | 2995.82              |
|                                                                                    | <b>2022 Jan</b>         | 3226.04                                              | 2778.66 <sup>r</sup>     | 2995.82              |
|                                                                                    | <b>Feb</b>              | 3243.92                                              | 3115.27 <sup>r</sup>     | 3220.32              |
|                                                                                    | <b>Mac</b>              | 3321.06                                              | 3147.03                  | 3299.22              |

**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<br><i>Period</i> | Kawasan<br><i>Region</i>                      |                          |                      |                      |
|----------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------|--------------------------|----------------------|----------------------|
|                                                                                              |                         | Utara<br><i>North</i>                         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                      |
| 1.1 Bar Bulat Keluli Lembut BS-4449 (samb.)<br><i>Mild Steel Round Bars BS-4449 (cont'd)</i> |                         | RM Per Tan Metrik<br><i>RM Per Metric Ton</i> |                          |                      |                      |
| 1.1.4 20mm–25mm<br>(3/4"–1")                                                                 | 2021                    | Mac                                           | 2562.46                  | 2375.33              | 2754.61              |
|                                                                                              |                         | Apr                                           | 2664.80                  | 2406.88              | 2754.61              |
|                                                                                              |                         | Mei                                           | 2761.18                  | 2406.88              | 2754.61              |
|                                                                                              |                         | Jun                                           | 2831.14 <sup>r</sup>     | 2406.88 <sup>r</sup> | 2836.07 <sup>r</sup> |
|                                                                                              |                         | Jul                                           | 2888.23                  | 2406.88              | 2863.81              |
|                                                                                              |                         | Ogos                                          | 2914.54                  | 2406.88              | 2867.24              |
|                                                                                              |                         | Sept                                          | 2914.54 <sup>r</sup>     | 2435.06              | 2867.24              |
|                                                                                              |                         | Okt                                           | 2963.51                  | 2466.65              | 2867.24              |
|                                                                                              |                         | Nov                                           | 2957.34                  | 2513.04              | 2867.24              |
|                                                                                              |                         | Dis                                           | 2973.36                  | 2567.98              | 2867.24              |
|                                                                                              | 2022                    | Jan                                           | 2973.36                  | 2704.98 <sup>r</sup> | 2867.24              |
|                                                                                              |                         | Feb                                           | 3043.99 <sup>r</sup>     | 2923.05 <sup>r</sup> | 2903.75              |
|                                                                                              |                         | Mac                                           | 3145.71                  | 2951.26              | 2903.75              |
| 1.1.5 32mm (1 1/4")                                                                          | 2021                    | Mac                                           | 2746.60                  | 2527.48              | 2718.66              |
|                                                                                              |                         | Apr                                           | 2906.90                  | 2578.81              | 2718.66              |
|                                                                                              |                         | Mei                                           | 2938.66                  | 2578.81              | 2718.66              |
|                                                                                              |                         | Jun                                           | 2938.66                  | 2578.81              | 2718.66              |
|                                                                                              |                         | Jul                                           | 3046.91                  | 2578.81              | 2718.66              |
|                                                                                              |                         | Ogos                                          | 3134.41                  | 2578.81              | 2718.66              |
|                                                                                              |                         | Sept                                          | 3134.41 <sup>r</sup>     | 2621.70              | 2718.66              |
|                                                                                              |                         | Okt                                           | 3134.41                  | 2676.06              | 2718.66              |
|                                                                                              |                         | Nov                                           | 3134.41                  | 2749.13              | 2718.66              |
|                                                                                              |                         | Dis                                           | 3134.41                  | 2863.24              | 2718.66              |
|                                                                                              | 2022                    | Jan                                           | 3134.41                  | 3129.18 <sup>r</sup> | 2718.66              |
|                                                                                              |                         | Feb                                           | 3211.14                  | 3245.18              | 2818.66              |
|                                                                                              |                         | Mac                                           | 3311.14                  | 3319.18              | 2818.66              |
| 1.2 Mycon 60<br><i>High Tensile Deformed Bars</i>                                            |                         |                                               |                          |                      |                      |
| 1.2.1 10mm (3/8")                                                                            | 2021                    | Mac                                           | 2652.43                  | 2554.49              | 3073.05              |
|                                                                                              |                         | Apr                                           | 2750.22                  | 2569.41              | 3185.15              |
|                                                                                              |                         | Mei                                           | 2824.05                  | 2569.41              | 3210.15              |
|                                                                                              |                         | Jun                                           | 2887.04                  | 2592.16              | 3301.79              |
|                                                                                              |                         | Jul                                           | 3086.56                  | 2592.16              | 3506.11              |
|                                                                                              |                         | Ogos                                          | 3130.38                  | 2592.16              | 3516.14              |
|                                                                                              |                         | Sept                                          | 3130.38                  | 2626.32 <sup>r</sup> | 3544.43              |
|                                                                                              |                         | Okt                                           | 3179.18                  | 2657.62              | 3544.43              |
|                                                                                              |                         | Nov                                           | 3180.70                  | 2716.99              | 3544.43              |
|                                                                                              |                         | Dis                                           | 3178.73                  | 2772.29              | 3544.43              |
|                                                                                              | 2022                    | Jan                                           | 3178.73                  | 2914.72 <sup>r</sup> | 3544.43              |
|                                                                                              |                         | Feb                                           | 3195.92                  | 3027.88 <sup>r</sup> | 3546.66              |
|                                                                                              |                         | Mac                                           | 3229.41                  | 3078.56              | 3584.06              |

**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<br><i>Period</i> | Kawasan<br><i>Region</i> |                          |                      |                      |         |
|-------------------------------------|-------------------------|--------------------------|--------------------------|----------------------|----------------------|---------|
|                                     |                         | Utara<br><i>North</i>    | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                      |         |
| 1.2 Mycon 60 (Samb.)                |                         | RM Per Tan Metrik        |                          |                      |                      |         |
| High Tensile Deformed Bars (Cont'd) |                         | RM Per Metric Ton        |                          |                      |                      |         |
| 1.2.2 12mm (1/2")                   | 2021                    | Mac                      | 2657.84                  | 2582.47              | 3073.05              |         |
|                                     |                         | Apr                      | 2753.55                  | 2591.23              | 3185.15              |         |
|                                     |                         | Mei                      | 2827.76                  | 2591.23              | 3210.15              |         |
|                                     |                         | Jun                      | 2891.15                  | 2614.00              | 3298.63              |         |
|                                     |                         | Jul                      | 3078.16                  | 2594.08              | 3502.80              |         |
|                                     |                         | Ogos                     | 3122.26                  | 2594.08              | 3516.14              |         |
|                                     |                         | Sept                     | 3122.26                  | 2628.25 <sup>r</sup> | 3519.43              |         |
|                                     |                         | Okt                      | 3171.38                  | 2659.57              | 3519.43              |         |
|                                     |                         | Nov                      | 3177.96                  | 2722.58              | 3544.43              |         |
|                                     |                         | Dis                      | 3176.15                  | 2816.30              | 3544.43              |         |
|                                     |                         | 2022                     | Jan                      | 3180.47              | 2985.68 <sup>r</sup> | 3544.43 |
|                                     |                         | Feb                      | 3197.70                  | 3108.94 <sup>r</sup> | 3553.32              |         |
|                                     | Mac                     | 3237.44                  | 3154.61                  | 3590.86              |                      |         |
| 1.2.3 16mm–25mm<br>(5/8"–1")        | 2021                    | Mac                      | 2523.77                  | 2412.37              | 2861.72              |         |
|                                     |                         | Apr                      | 2624.70                  | 2416.58              | 2910.06              |         |
|                                     |                         | Mei                      | 2704.04                  | 2416.58              | 2917.92              |         |
|                                     |                         | Jun                      | 2764.73 <sup>r</sup>     | 2440.75 <sup>r</sup> | 3033.74 <sup>r</sup> |         |
|                                     |                         | Jul                      | 2960.40                  | 2440.75              | 3156.68              |         |
|                                     |                         | Ogos                     | 3010.86                  | 2440.75              | 3180.05              |         |
|                                     |                         | Sept                     | 3023.07 <sup>r</sup>     | 2460.81 <sup>r</sup> | 3188.31              |         |
|                                     |                         | Okt                      | 3077.20                  | 2492.54              | 3188.31              |         |
|                                     |                         | Nov                      | 3065.14                  | 2561.88              | 3188.31              |         |
|                                     |                         | Dis                      | 3071.24                  | 2644.75              | 3188.31              |         |
|                                     |                         | 2022                     | Jan                      | 3071.24              | 2829.58 <sup>r</sup> | 3188.31 |
|                                     |                         | Feb                      | 3130.98                  | 2967.13              | 3218.22              |         |
|                                     | Mac                     | 3162.34                  | 3020.61                  | 3281.99              |                      |         |
| 1.2.4 32mm (1 1/4")                 | 2021                    | Mac                      | 2488.06                  | 2412.78              | 2754.41              |         |
|                                     |                         | Apr                      | 2589.46                  | 2412.78              | 2754.41              |         |
|                                     |                         | Mei                      | 2677.65                  | 2412.78              | 2754.41              |         |
|                                     |                         | Jun                      | 2742.38                  | 2412.78              | 2754.41              |         |
|                                     |                         | Jul                      | 2800.84                  | 2412.78              | 2754.41              |         |
|                                     |                         | Ogos                     | 2842.58                  | 2412.78              | 2754.41              |         |
|                                     |                         | Sept                     | 2842.58 <sup>r</sup>     | 2430.90 <sup>r</sup> | 2754.41              |         |
|                                     |                         | Okt                      | 2906.89                  | 2446.76              | 2754.41              |         |
|                                     |                         | Nov                      | 2896.30                  | 2450.23              | 2754.41              |         |
|                                     |                         | Dis                      | 2949.10                  | 2519.77              | 2754.41              |         |
|                                     |                         | 2022                     | Jan                      | 2949.10              | 2630.11 <sup>r</sup> | 2754.41 |
|                                     |                         | Feb                      | 3027.46                  | 2826.38 <sup>r</sup> | 2754.41              |         |
|                                     | Mac                     | 3027.46                  | 2876.38                  | 2754.41              |                      |         |

**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<br><i>Period</i> | Kawasan<br><i>Region</i>                            |                          |                      |
|-----------------------------------|-------------------------|-----------------------------------------------------|--------------------------|----------------------|
|                                   |                         | Utara<br><i>North</i>                               | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| <b>1.3 Simen</b><br><i>Cement</i> |                         | <b>RM Sekarung 50 Kg</b><br><i>RM Per 50 Kg Bag</i> |                          |                      |
| <b>1.3.1 Portland Biasa</b>       | <b>2021 Mac</b>         | 16.32                                               | 17.97                    | 16.93                |
| <b>BS 12</b>                      | <b>Apr</b>              | 16.45                                               | 18.00                    | 17.01                |
| <i>Ordinary</i>                   | <b>Mei</b>              | 16.33                                               | 18.00                    | 17.12                |
| <i>Portland BS 12</i>             | <b>Jun</b>              | 16.43                                               | 17.90                    | 17.07                |
|                                   | <b>Jul</b>              | 16.51                                               | 17.90                    | 17.53                |
|                                   | <b>Ogos</b>             | 16.69                                               | 17.90                    | 17.79                |
|                                   | <b>Sept</b>             | 17.06 <sup>r</sup>                                  | 17.96                    | 17.79 <sup>r</sup>   |
|                                   | <b>Okt</b>              | 17.17                                               | 17.99                    | 17.97                |
|                                   | <b>Nov</b>              | 17.36                                               | 18.41                    | 18.38                |
|                                   | <b>Dis</b>              | 17.53                                               | 18.46                    | 18.60                |
|                                   | <b>2022 Jan</b>         | 17.54                                               | 18.73 <sup>r</sup>       | 18.69                |
|                                   | <b>Feb</b>              | 17.56                                               | 18.73                    | 18.69                |
|                                   | <b>Mac</b>              | 17.56                                               | 18.77                    | 18.72                |

**Jadual 2: Harga unit purata bagi minyak bahan api, bitumen dan diesel**

*Table 2: Average unit prices for fuel oil, bitumen and diesel*

| Item                                                                    | Tempoh<br>Period | Semenanjung Malaysia<br>Peninsular Malaysia          |
|-------------------------------------------------------------------------|------------------|------------------------------------------------------|
| <b>2.1 Minyak Bahan Api</b><br><i>Fuel Oil</i>                          |                  | <b>RM Seliter</b><br><i>RM Per Litre</i>             |
| <b>2.1.1 Sederhana</b><br><i>Medium</i>                                 | <b>2021 Mac</b>  | n.a.                                                 |
|                                                                         | <b>Apr</b>       | n.a.                                                 |
|                                                                         | <b>Mei</b>       | n.a.                                                 |
|                                                                         | <b>Jun</b>       | n.a.                                                 |
|                                                                         | <b>Jul</b>       | n.a.                                                 |
|                                                                         | <b>Ogos</b>      | n.a.                                                 |
|                                                                         | <b>Sept</b>      | n.a.                                                 |
|                                                                         | <b>Okt</b>       | n.a.                                                 |
|                                                                         | <b>Nov</b>       | n.a.                                                 |
|                                                                         | <b>Dis</b>       | n.a.                                                 |
|                                                                         | <b>2022 Jan</b>  | n.a.                                                 |
|                                                                         | <b>Feb</b>       | n.a.                                                 |
|                                                                         | <b>Mac</b>       | n.a.                                                 |
| <b>2.2 Bitumen Penembusan 60/70</b><br><i>Bitumen 60/70 Penetration</i> |                  | <b>RM Per Tan Metrik</b><br><i>RM Per Metric Ton</i> |
|                                                                         | <b>2021 Mac</b>  | 2200.00 <sup>r</sup>                                 |
|                                                                         | <b>Apr</b>       | 2300.00                                              |
|                                                                         | <b>Mei</b>       | 2200.00 <sup>r</sup>                                 |
|                                                                         | <b>Jun</b>       | 2000.00 <sup>r</sup>                                 |
|                                                                         | <b>Jul</b>       | 2200.00                                              |
|                                                                         | <b>Ogos</b>      | 2200.00                                              |
|                                                                         | <b>Sept</b>      | 2100.00                                              |
|                                                                         | <b>Okt</b>       | 2250.00                                              |
|                                                                         | <b>Nov</b>       | 2400.00                                              |
|                                                                         | <b>Dis</b>       | 2400.00                                              |
|                                                                         | <b>2022 Jan</b>  | 2400.00                                              |
|                                                                         | <b>Feb</b>       | 2600.00                                              |
|                                                                         | <b>Mac</b>       | 2600.00                                              |

**Nota: Bermula Mei 2017, bitumen penembusan 80/100 telah ditukar kepada 60/70. Harga bitumen penembusan 60/70 adalah berdasarkan harga purata ex-Kuala Lumpur.**

*Notes: Starting May 2017, the bitumen 80/100 penetration has been converted into 60/70. The price for bitumen 60/70 penetration is based on average ex-Kuala Lumpur.*

**Jadual 2: Harga unit purata bagi minyak bahan api, bitumen dan diesel (samb.)**

*Table 2: Average unit prices for fuel oil, bitumen and diesel (cont'd)*

| Item                                                         | Tempoh<br>Period | Semenanjung Malaysia<br>Peninsular Malaysia |
|--------------------------------------------------------------|------------------|---------------------------------------------|
| <b>(3) Minyak Gas Automotif</b><br><i>Automotive Gas Oil</i> |                  | <b>RM Seliter</b><br><i>RM Per Litre</i>    |
|                                                              |                  | <b>Runcit</b><br><i>Retail</i>              |
| <b>Diesel</b>                                                | <b>2021 Mac</b>  | 2.15                                        |
| <i>Diesel</i>                                                | <b>Apr</b>       | 2.15                                        |
|                                                              | <b>Mei</b>       | 2.15                                        |
|                                                              | <b>Jun</b>       | 2.15                                        |
|                                                              | <b>Jul</b>       | 2.15                                        |
|                                                              | <b>Ogos</b>      | 2.15                                        |
|                                                              | <b>Sept</b>      | 2.15                                        |
|                                                              | <b>Okt</b>       | 2.15                                        |
|                                                              | <b>Nov</b>       | 2.15                                        |
|                                                              | <b>Dis</b>       | 2.15                                        |
|                                                              | <b>2022 Jan</b>  | 2.15                                        |
|                                                              | <b>Feb</b>       | 2.15                                        |
|                                                              | <b>Mac</b>       | 2.15                                        |

**Nota: Harga diesel adalah ex-Kuala Lumpur.**

*Notes: The price for diesel is ex-Kuala Lumpur.*

**Jadual 3: Harga unit purata bagi pasir, batu baur, premix, fabric reinforcement, guardrail dan paip air & paip pembetungan**  
**Table 3: Average unit prices for sand, aggregates, premix, fabric reinforcement, guardrail and water pipe & sewerage pipe**

| Item                                             | Tempoh<br>Period | Kawasan<br>Region                                    |                    |                    |
|--------------------------------------------------|------------------|------------------------------------------------------|--------------------|--------------------|
|                                                  |                  | Utara<br>North                                       | Tengah<br>Central  | Timur<br>East      |
| <b>3.1 Pasir</b><br><i>Sand</i>                  |                  | <b>RM Per Tan Metrik</b><br><i>RM Per Metric Ton</i> |                    |                    |
| <b>3.1.1 Pasir Sungai</b><br><i>River Sand</i>   | <b>2021 Mac</b>  | 42.81 <sup>f</sup>                                   | 53.86              | 36.25              |
|                                                  | <b>Apr</b>       | 44.28 <sup>f</sup>                                   | 53.86              | 36.25              |
|                                                  | <b>Mei</b>       | 44.28                                                | 53.86              | 36.25              |
|                                                  | <b>Jun</b>       | 44.28 <sup>f</sup>                                   | 52.53              | 34.55 <sup>f</sup> |
|                                                  | <b>Jul</b>       | 46.36                                                | 51.63              | 34.55              |
|                                                  | <b>Ogos</b>      | 47.36                                                | 51.31              | 34.55              |
|                                                  | <b>Sept</b>      | 47.91                                                | 51.31 <sup>f</sup> | 34.55              |
|                                                  | <b>Okt</b>       | 47.91                                                | 54.40              | 34.55              |
|                                                  | <b>Nov</b>       | 47.92                                                | 56.01              | 34.55              |
|                                                  | <b>Dis</b>       | 48.08 <sup>f</sup>                                   | 55.37              | 33.59              |
|                                                  | <b>2022 Jan</b>  | 47.81                                                | 57.30 <sup>f</sup> | 34.14              |
|                                                  | <b>Feb</b>       | 47.93                                                | 57.65              | 34.14              |
|                                                  | <b>Mac</b>       | 48.64                                                | 57.49              | 34.35              |
| <b>3.1.2 Pasir Lombong</b><br><i>Mining Sand</i> | <b>2021 Mac</b>  | 37.56                                                | 53.60              | n.a.               |
|                                                  | <b>Apr</b>       | 43.64                                                | 53.72              | n.a.               |
|                                                  | <b>Mei</b>       | 43.64                                                | 53.72              | n.a.               |
|                                                  | <b>Jun</b>       | 43.64                                                | 54.26              | n.a.               |
|                                                  | <b>Jul</b>       | 43.64                                                | 53.77              | n.a.               |
|                                                  | <b>Ogos</b>      | 43.64                                                | 53.59              | n.a.               |
|                                                  | <b>Sept</b>      | 43.64                                                | 53.59              | n.a.               |
|                                                  | <b>Okt</b>       | 44.64                                                | 53.59              | n.a.               |
|                                                  | <b>Nov</b>       | 46.14                                                | 53.46              | n.a.               |
|                                                  | <b>Dis</b>       | 46.14                                                | 53.14              | n.a.               |
|                                                  | <b>2022 Jan</b>  | 47.14                                                | 55.99              | n.a.               |
|                                                  | <b>Feb</b>       | 47.14                                                | 55.31              | n.a.               |
|                                                  | <b>Mac</b>       | 47.14                                                | 56.07              | n.a.               |
| <b>3.2 Batu Baur</b><br><i>Aggregates</i>        |                  |                                                      |                    |                    |
| <b>3.2.1 Granite</b><br><b>10mm (3/8")</b>       | <b>2021 Mac</b>  | 29.65                                                | 30.50              | 31.38              |
|                                                  | <b>Apr</b>       | 31.06                                                | 31.00              | 31.38              |
|                                                  | <b>Mei</b>       | 32.31                                                | 31.00              | 31.38              |
|                                                  | <b>Jun</b>       | 33.19                                                | 29.95              | 31.38              |
|                                                  | <b>Jul</b>       | 32.31                                                | 29.95              | 31.38              |
|                                                  | <b>Ogos</b>      | 33.31                                                | 29.97              | 31.97              |
|                                                  | <b>Sept</b>      | 33.38                                                | 29.97              | 31.97              |
|                                                  | <b>Okt</b>       | 33.38                                                | 30.96              | 31.97              |
|                                                  | <b>Nov</b>       | 33.38                                                | 31.29              | 31.97              |
|                                                  | <b>Dis</b>       | 33.38                                                | 29.44              | 31.91              |
|                                                  | <b>2022 Jan</b>  | 33.25                                                | 29.68              | 31.91              |
|                                                  | <b>Feb</b>       | 32.00 <sup>f</sup>                                   | 29.92              | 31.91              |
|                                                  | <b>Mac</b>       | 32.00                                                | 29.81              | 32.16              |

**Nota: Harga bagi pasir, batu baur dan premix adalah termasuk kos pengangkutan bagi jarak 30km dari outlet.**

*Notes: The prices for sand, aggregates and premix are inclusive of transportation charge for 30km from the outlets.*

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

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

| Item                                                       | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                             |                          |                      |
|------------------------------------------------------------|-------------------------|------------------------------------------------------|--------------------------|----------------------|
|                                                            |                         | Utara<br><i>North</i>                                | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| <b>3.2 Batu Baur (Samb.)</b><br><i>Aggregates (Cont'd)</i> |                         | <b>RM Per Tan Metrik</b><br><i>RM Per Metric Ton</i> |                          |                      |
| <b>3.2.2 Granite</b><br>20mm (3/4")                        | <b>2021 Mac</b>         | 37.52 <sup>f</sup>                                   | 31.94                    | 31.79                |
|                                                            | <b>Apr</b>              | 39.13 <sup>f</sup>                                   | 33.21                    | 31.79                |
|                                                            | <b>Mei</b>              | 39.68 <sup>f</sup>                                   | 33.21                    | 31.79                |
|                                                            | <b>Jun</b>              | 39.82                                                | 32.04                    | 31.79                |
|                                                            | <b>Jul</b>              | 39.46                                                | 32.83                    | 31.79                |
|                                                            | <b>Ogos</b>             | 44.19                                                | 33.03                    | 31.79                |
|                                                            | <b>Sept</b>             | 42.09                                                | 33.03 <sup>f</sup>       | 31.79                |
|                                                            | <b>Okt</b>              | 43.45                                                | 33.17                    | 31.79                |
|                                                            | <b>Nov</b>              | 44.64                                                | 34.32                    | 31.79                |
|                                                            | <b>Dis</b>              | 45.14                                                | 33.16 <sup>f</sup>       | 31.95                |
|                                                            | <b>2022 Jan</b>         | 45.99                                                | 33.76                    | 31.95                |
|                                                            | <b>Feb</b>              | 45.99                                                | 33.86                    | 31.95                |
|                                                            | <b>Mac</b>              | 47.07                                                | 33.58                    | 32.09                |
| <b>3.2.3 Granite</b><br>40mm (1 1/2")                      | <b>2021 Mac</b>         | 28.13                                                | 29.52                    | 29.12                |
|                                                            | <b>Apr</b>              | 28.13                                                | 29.52                    | 29.12                |
|                                                            | <b>Mei</b>              | 28.13                                                | 29.55                    | 29.12                |
|                                                            | <b>Jun</b>              | 28.13                                                | 29.97                    | 29.12                |
|                                                            | <b>Jul</b>              | 28.13                                                | 29.72                    | 29.12                |
|                                                            | <b>Ogos</b>             | 32.33                                                | 29.72                    | 29.12                |
|                                                            | <b>Sept</b>             | 32.33                                                | 29.72                    | 29.72                |
|                                                            | <b>Okt</b>              | 32.33                                                | 29.72                    | 29.72                |
|                                                            | <b>Nov</b>              | 32.33                                                | 29.72                    | 29.72                |
|                                                            | <b>Dis</b>              | 32.33                                                | 29.69                    | 29.72                |
|                                                            | <b>2022 Jan</b>         | 32.33                                                | 33.83                    | 29.72                |
|                                                            | <b>Feb</b>              | 32.33                                                | 34.29                    | 29.72                |
|                                                            | <b>Mac</b>              | 32.33                                                | 34.85                    | 30.12                |
| <b>3.2.4 Crushed Aggregate</b><br>(Crusher Run)            | <b>2021 Mac</b>         | 20.00                                                | 24.20                    | 18.95                |
|                                                            | <b>Apr</b>              | 19.55                                                | 24.65                    | 18.95                |
|                                                            | <b>Mei</b>              | 19.55                                                | 23.59                    | 18.95                |
|                                                            | <b>Jun</b>              | 19.55 <sup>f</sup>                                   | 21.81                    | 18.95                |
|                                                            | <b>Jul</b>              | 19.55                                                | 23.09                    | 18.95                |
|                                                            | <b>Ogos</b>             | 20.77                                                | 23.34                    | 20.61                |
|                                                            | <b>Sept</b>             | 20.77                                                | 23.34                    | 20.61                |
|                                                            | <b>Okt</b>              | 20.77                                                | 24.54                    | 20.61                |
|                                                            | <b>Nov</b>              | 20.86                                                | 24.99                    | 20.61                |
|                                                            | <b>Dis</b>              | 21.05                                                | 24.19                    | 21.59                |
|                                                            | <b>2022 Jan</b>         | 20.15                                                | 24.57 <sup>f</sup>       | 23.31                |
|                                                            | <b>Feb</b>              | 20.55                                                | 24.87                    | 23.31                |
|                                                            | <b>Mac</b>              | 20.85                                                | 24.66                    | 23.31                |

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

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

| Item                            | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                      |                          |                      |                     |        |
|---------------------------------|-------------------------|-----------------------------------------------|--------------------------|----------------------|---------------------|--------|
|                                 |                         | Utara<br><i>North</i>                         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                     |        |
| 3.3.a Premix Asphaltic Concrete |                         | RM Per Tan Metrik<br><i>RM Per Metric Ton</i> |                          |                      |                     |        |
| 3.3.a.1 AC 10 (Wearing Course)  | 2021                    | Mac                                           | 166.33                   | 169.09               | 258.00              |        |
|                                 |                         | Apr                                           | 166.33                   | 169.09               | 258.00              |        |
|                                 |                         | Mei                                           | 166.33                   | 169.09               | 258.00              |        |
|                                 |                         | Jun                                           | 166.33                   | 160.50               | 258.00              |        |
|                                 |                         | Jul                                           | 166.33                   | 160.50               | 258.00              |        |
|                                 |                         | Ogos                                          | 166.33                   | 160.50               | 258.00              |        |
|                                 |                         | Sept                                          | 166.33                   | 160.50               | 258.00              |        |
|                                 |                         | Okt                                           | 166.33                   | 165.00               | 258.00              |        |
|                                 |                         | Nov                                           | 168.67                   | 165.00               | 258.00              |        |
|                                 |                         | Dis                                           | 168.50                   | 165.45               | 258.00              |        |
|                                 |                         | 2022                                          | Jan                      | 168.50               | 181.46              | 258.00 |
|                                 |                         | Feb                                           | 168.50                   | 186.65               | 258.00              |        |
|                                 | Mac                     | 168.50                                        | 190.81                   | 258.00               |                     |        |
| 3.3.a.2 AC 14 (Wearing Course)  | 2021                    | Mac                                           | 163.60                   | 182.08               | 201.00              |        |
|                                 |                         | Apr                                           | 163.60                   | 182.08               | 202.67              |        |
|                                 |                         | Mei                                           | 163.60                   | 182.08               | 202.67              |        |
|                                 |                         | Jun                                           | 163.60                   | 175.45               | 202.67              |        |
|                                 |                         | Jul                                           | 163.60                   | 175.45               | 202.67              |        |
|                                 |                         | Ogos                                          | 163.60                   | 175.45               | 202.67              |        |
|                                 |                         | Sept                                          | 165.60                   | 175.45               | 202.67              |        |
|                                 |                         | Okt                                           | 165.60                   | 182.00               | 202.67              |        |
|                                 |                         | Nov                                           | 170.40                   | 183.50               | 206.00              |        |
|                                 |                         | Dis                                           | 170.50                   | 178.33               | 204.33              |        |
|                                 |                         | 2022                                          | Jan                      | 170.50               | 179.97              | 202.67 |
|                                 |                         | Feb                                           | 170.50                   | 184.29               | 204.33              |        |
|                                 | Mac                     | 170.50                                        | 187.35                   | 206.00               |                     |        |
| 3.3.a.3 AC 28 (Binder Course)   | 2021                    | Mac                                           | 159.80                   | 176.91               | 197.67              |        |
|                                 |                         | Apr                                           | 159.80                   | 176.91               | 199.33              |        |
|                                 |                         | Mei                                           | 159.80                   | 176.91               | 199.33              |        |
|                                 |                         | Jun                                           | 159.80                   | 168.60               | 199.33              |        |
|                                 |                         | Jul                                           | 159.80                   | 168.60               | 199.33              |        |
|                                 |                         | Ogos                                          | 159.80                   | 168.60               | 199.33              |        |
|                                 |                         | Sept                                          | 161.80                   | 168.60               | 199.33              |        |
|                                 |                         | Okt                                           | 161.80                   | 172.60               | 199.33              |        |
|                                 |                         | Nov                                           | 167.40                   | 172.60               | 202.67              |        |
|                                 |                         | Dis                                           | 167.75                   | 171.45               | 201.00              |        |
|                                 |                         | 2022                                          | Jan                      | 167.75               | 173.15 <sup>r</sup> | 199.33 |
|                                 |                         | Feb                                           | 167.75                   | 176.34               | 201.00              |        |
|                                 | Mac                     | 167.75                                        | 180.86                   | 202.67               |                     |        |

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

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

| Item                                                       | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                      |                          |                      |
|------------------------------------------------------------|-------------------------|-----------------------------------------------|--------------------------|----------------------|
|                                                            |                         | Utara<br><i>North</i>                         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
|                                                            |                         |                                               |                          |                      |
| 3.3.a Premix Asphaltic Concrete (samb.)<br><i>(cont'd)</i> |                         | RM Per Tan Metrik<br><i>RM Per Metric Ton</i> |                          |                      |
| 3.3.a.4 ACW 20 (Wearing Course)                            | 2021 Mac                | 168.20                                        | 183.00                   | 214.00               |
|                                                            | Apr                     | 168.20                                        | 183.00                   | 216.50               |
|                                                            | Mei                     | 168.20                                        | 183.00                   | 216.50               |
|                                                            | Jun                     | 168.20 <sup>r</sup>                           | 175.80                   | 216.50               |
|                                                            | Jul                     | 168.20 <sup>r</sup>                           | 175.80                   | 216.50               |
|                                                            | Ogos                    | 168.20                                        | 175.80                   | 216.50               |
|                                                            | Sept                    | 170.20                                        | 175.80                   | 216.50               |
|                                                            | Okt                     | 170.20                                        | 182.00                   | 216.50               |
|                                                            | Nov                     | 173.60                                        | 183.67                   | 221.50               |
|                                                            | Dis                     | 174.75                                        | 178.00                   | 219.00               |
|                                                            | 2022 Jan                | 174.75                                        | 179.70                   | 216.50               |
|                                                            | Feb                     | 174.75                                        | 182.97                   | 219.00               |
|                                                            | Mac                     | 174.75                                        | 184.77                   | 221.50               |

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

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

| Item                             | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                      |                          |                      |        |
|----------------------------------|-------------------------|-----------------------------------------------|--------------------------|----------------------|--------|
|                                  |                         | Utara<br><i>North</i>                         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |        |
| 3.3.b Premix Bituminous Macadam  |                         | RM Per Tan Metrik<br><i>RM Per Metric Ton</i> |                          |                      |        |
| 3.3.b.1 BMR40 (Bound Roadbase)   | 2021                    | Mac                                           | 165.00                   | 187.00               | n.a.   |
|                                  |                         | Apr                                           | 165.00                   | 187.00               | n.a.   |
|                                  |                         | Mei                                           | 165.00                   | 187.00               | n.a.   |
|                                  |                         | Jun                                           | 165.00                   | 191.25               | n.a.   |
|                                  |                         | Jul                                           | 165.00                   | 191.25               | n.a.   |
|                                  |                         | Ogos                                          | 165.00                   | 195.00               | n.a.   |
|                                  |                         | Sept                                          | 165.00                   | 195.00               | n.a.   |
|                                  |                         | Okt                                           | 165.00                   | 220.00               | n.a.   |
|                                  |                         | Nov                                           | 165.00                   | 220.00               | n.a.   |
|                                  |                         | Dis                                           | 165.00                   | 180.00               | n.a.   |
|                                  | 2022                    | Jan                                           | 165.00                   | 183.89               | n.a.   |
|                                  |                         | Feb                                           | 165.00                   | 183.89               | n.a.   |
|                                  |                         | Mac                                           | 165.00                   | 183.89               | n.a.   |
| 3.3.b.2 BMR28 (Bound Roadbase)   | 2021                    | Mac                                           | 165.00                   | 153.29               | n.a.   |
|                                  |                         | Apr                                           | 165.00                   | 153.29               | n.a.   |
|                                  |                         | Mei                                           | 165.00                   | 153.29               | n.a.   |
|                                  |                         | Jun                                           | 165.00                   | 150.50               | n.a.   |
|                                  |                         | Jul                                           | 165.00                   | 150.50               | n.a.   |
|                                  |                         | Ogos                                          | 165.00                   | 144.60               | n.a.   |
|                                  |                         | Sept                                          | 165.00                   | 144.60               | n.a.   |
|                                  |                         | Okt                                           | 165.00                   | 174.50               | n.a.   |
|                                  |                         | Nov                                           | 165.00                   | 174.50               | n.a.   |
|                                  |                         | Dis                                           | 165.00                   | 166.86               | n.a.   |
|                                  | 2022                    | Jan                                           | 165.00                   | 169.64               | n.a.   |
|                                  |                         | Feb                                           | 165.00                   | 175.16               | n.a.   |
|                                  |                         | Mac                                           | 165.00                   | 189.43               | n.a.   |
| 3.3.b.3 BML10 (Levelling Course) | 2021                    | Mac                                           | 165.00                   | 189.00               | 163.00 |
|                                  |                         | Apr                                           | 165.00                   | 170.43               | 168.00 |
|                                  |                         | Mei                                           | 165.00                   | 189.00               | 168.00 |
|                                  |                         | Jun                                           | 165.00                   | 178.00               | 168.00 |
|                                  |                         | Jul                                           | 165.00                   | 178.00               | 168.00 |
|                                  |                         | Ogos                                          | 165.00                   | 177.60               | 168.00 |
|                                  |                         | Sept                                          | 165.00                   | 177.60               | 168.00 |
|                                  |                         | Okt                                           | 165.00                   | 197.00               | 168.00 |
|                                  |                         | Nov                                           | 165.00                   | 197.00               | 178.00 |
|                                  |                         | Dis                                           | 165.00                   | 184.00               | 173.00 |
|                                  | 2022                    | Jan                                           | 165.00                   | 186.35               | 168.00 |
|                                  |                         | Feb                                           | 165.00                   | 192.02               | 173.00 |
|                                  |                         | Mac                                           | 165.00                   | 198.02               | 178.00 |

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

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

| Item                                                              | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                             |                          |                      |
|-------------------------------------------------------------------|-------------------------|------------------------------------------------------|--------------------------|----------------------|
|                                                                   |                         | Utara<br><i>North</i>                                | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| <b>3.3.b Premix Bituminous Macadam (samb.)</b><br><i>(cont'd)</i> |                         | <b>RM Per Tan Metrik</b><br><i>RM Per Metric Ton</i> |                          |                      |
| <b>3.3.b.4 BMB28 (Binder Course)</b>                              | <b>2021 Mac</b>         | 165.00                                               | 180.13                   | 157.00               |
|                                                                   | <b>Apr</b>              | 165.00                                               | 180.13                   | 162.00               |
|                                                                   | <b>Mei</b>              | 165.00                                               | 180.13                   | 162.00               |
|                                                                   | <b>Jun</b>              | 165.00                                               | 170.14                   | 162.00               |
|                                                                   | <b>Jul</b>              | 165.00                                               | 170.14                   | 162.00               |
|                                                                   | <b>Ogos</b>             | 165.00                                               | 168.50                   | 162.00               |
|                                                                   | <b>Sept</b>             | 165.00                                               | 168.50                   | 162.00               |
|                                                                   | <b>Okt</b>              | 165.00                                               | 175.17                   | 162.00               |
|                                                                   | <b>Nov</b>              | 165.00                                               | 175.17                   | 162.00               |
|                                                                   | <b>Dis</b>              | 165.00                                               | 174.50                   | 167.00 <sup>f</sup>  |
|                                                                   | <b>2022 Jan</b>         | 165.00                                               | 181.78                   | 162.00               |
|                                                                   | <b>Feb</b>              | 165.00                                               | 188.31                   | 167.00               |
|                                                                   | <b>Mac</b>              | 165.00                                               | 204.83                   | 172.00               |
| <b>3.3.b.5 BMB20 (Binder Course)</b>                              | <b>2021 Mac</b>         | 165.00                                               | 186.13                   | 197.67               |
|                                                                   | <b>Apr</b>              | 165.00                                               | 186.13                   | 199.33               |
|                                                                   | <b>Mei</b>              | 165.00                                               | 186.13                   | 199.33               |
|                                                                   | <b>Jun</b>              | 165.00                                               | 177.00                   | 199.33               |
|                                                                   | <b>Jul</b>              | 165.00                                               | 177.00                   | 199.33               |
|                                                                   | <b>Ogos</b>             | 165.00                                               | 176.50                   | 199.33               |
|                                                                   | <b>Sept</b>             | 165.00                                               | 176.50                   | 199.33               |
|                                                                   | <b>Okt</b>              | 165.00                                               | 180.67                   | 199.33               |
|                                                                   | <b>Nov</b>              | 165.00                                               | 183.17                   | 202.67               |
|                                                                   | <b>Dis</b>              | 165.00                                               | 181.13                   | 204.00               |
|                                                                   | <b>2022 Jan</b>         | 165.00                                               | 189.07                   | 202.33               |
|                                                                   | <b>Feb</b>              | 165.00                                               | 194.31                   | 204.00               |
|                                                                   | <b>Mac</b>              | 165.00                                               | 203.86                   | 205.67               |
| <b>3.3.b.6 BMW14 (Wearing Course)</b>                             | <b>2021 Mac</b>         | 165.00                                               | 180.22                   | 199.33               |
|                                                                   | <b>Apr</b>              | 165.00                                               | 180.22                   | 201.00               |
|                                                                   | <b>Mei</b>              | 165.00                                               | 180.22                   | 201.00               |
|                                                                   | <b>Jun</b>              | 165.00                                               | 172.13                   | 201.00               |
|                                                                   | <b>Jul</b>              | 165.00                                               | 172.13                   | 201.00               |
|                                                                   | <b>Ogos</b>             | 165.00                                               | 171.00                   | 201.00               |
|                                                                   | <b>Sept</b>             | 165.00                                               | 171.00                   | 201.00               |
|                                                                   | <b>Okt</b>              | 165.00                                               | 182.83                   | 201.00               |
|                                                                   | <b>Nov</b>              | 165.00                                               | 187.40                   | 204.33               |
|                                                                   | <b>Dis</b>              | 165.00                                               | 176.89                   | 206.00               |
|                                                                   | <b>2022 Jan</b>         | 165.00                                               | 179.05                   | 204.33               |
|                                                                   | <b>Feb</b>              | 165.00                                               | 184.02                   | 206.00               |
|                                                                   | <b>Mac</b>              | 165.00                                               | 191.88                   | 207.67               |

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

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

| Item                                                       | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                      |                          |                      |
|------------------------------------------------------------|-------------------------|-----------------------------------------------|--------------------------|----------------------|
|                                                            |                         | Utara<br><i>North</i>                         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| 3.3.b Premix Bituminous Macadam (samb.)<br><i>(cont'd)</i> |                         | RM Per Tan Metrik<br><i>RM Per Metric Ton</i> |                          |                      |
| 3.3.b.7 BMW20 (Wearing Course)                             | 2021 Mac                | 165.00                                        | 180.33                   | 258.00               |
|                                                            | Apr                     | 165.00                                        | 180.33                   | 258.00               |
|                                                            | Mei                     | 165.00                                        | 180.33                   | 258.00               |
|                                                            | Jun                     | 165.00                                        | 172.25                   | 258.00               |
|                                                            | Jul                     | 165.00                                        | 172.25                   | 258.00               |
|                                                            | Ogos                    | 165.00                                        | 171.14                   | 258.00               |
|                                                            | Sept                    | 165.00                                        | 171.14                   | 258.00               |
|                                                            | Okt                     | 165.00                                        | 181.33                   | 258.00               |
|                                                            | Nov                     | 165.00                                        | 185.60                   | 258.00               |
|                                                            | Dis                     | 165.00                                        | 175.22                   | 258.00               |
|                                                            | 2022 Jan                | 165.00                                        | 177.38                   | 258.00               |
|                                                            | Feb                     | 165.00                                        | 182.13                   | 258.00               |
|                                                            | Mac                     | 165.00                                        | 189.59                   | 258.00               |

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

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

| Item                     | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|--------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                          |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.1 A4, MS145          | 2021                    | Mac                           | 3.41                     | 2.89                 | 4.08              |                   |
|                          |                         | Apr                           | 3.64                     | 3.64                 | 3.71              |                   |
|                          |                         | Mei                           | 3.64                     | 3.64                 | 4.00              |                   |
|                          |                         | Jun                           | 3.64                     | 3.64                 | 4.04              |                   |
|                          |                         | Jul                           | 3.64                     | 3.64                 | 4.05              |                   |
|                          |                         | Ogos                          | 3.64                     | 3.64                 | 4.05              |                   |
|                          |                         | Sept                          | 3.64                     | 3.64                 | 4.05              |                   |
|                          |                         | Okt                           | 3.64                     | 3.64                 | 4.05              |                   |
|                          |                         | Nov                           | 4.09                     | 3.64                 | 4.05              |                   |
|                          |                         | Dis                           | 4.09                     | 3.78 <sup>r</sup>    | 4.04 <sup>r</sup> |                   |
|                          |                         | 2022                          | Jan                      | 4.09                 | 3.78              | 4.04              |
|                          |                         |                               | Feb                      | 4.09                 | 3.78              | 4.17 <sup>r</sup> |
|                          | Mac                     | 4.09                          | 3.78                     | 4.17                 |                   |                   |
| 3.4.2 A5, MS145          | 2021                    | Mac                           | 3.16                     | 2.90                 | 4.04              |                   |
|                          |                         | Apr                           | 3.27                     | 3.68                 | 3.68              |                   |
|                          |                         | Mei                           | 3.27                     | 3.68                 | 3.96              |                   |
|                          |                         | Jun                           | 3.27                     | 3.68                 | 4.00              |                   |
|                          |                         | Jul                           | 3.27                     | 3.68                 | 4.01              |                   |
|                          |                         | Ogos                          | 3.27                     | 3.68                 | 4.01              |                   |
|                          |                         | Sept                          | 3.27                     | 3.68                 | 4.01              |                   |
|                          |                         | Okt                           | 3.27                     | 3.68                 | 4.01              |                   |
|                          |                         | Nov                           | 3.49                     | 3.68                 | 4.01              |                   |
|                          |                         | Dis                           | 3.49                     | 3.68                 | 4.00 <sup>r</sup> |                   |
|                          |                         | 2022                          | Jan                      | 3.49                 | 3.55              | 4.00              |
|                          |                         |                               | Feb                      | 3.49                 | 3.55              | 4.13 <sup>r</sup> |
|                          | Mac                     | 3.49                          | 3.56                     | 4.13                 |                   |                   |
| 3.4.3 A6, MS145          | 2021                    | Mac                           | 2.83                     | 2.88                 | 3.63              |                   |
|                          |                         | Apr                           | 2.93                     | 3.39                 | 3.30              |                   |
|                          |                         | Mei                           | 2.93                     | 3.39                 | 3.55              |                   |
|                          |                         | Jun                           | 2.93                     | 3.39                 | 3.59              |                   |
|                          |                         | Jul                           | 2.93                     | 3.39                 | 3.60              |                   |
|                          |                         | Ogos                          | 2.93                     | 3.39                 | 3.60              |                   |
|                          |                         | Sept                          | 2.93                     | 3.39                 | 3.60              |                   |
|                          |                         | Okt                           | 2.93                     | 3.39                 | 3.60              |                   |
|                          |                         | Nov                           | 3.13                     | 3.39                 | 3.60              |                   |
|                          |                         | Dis                           | 3.13                     | 3.39                 | 3.59 <sup>r</sup> |                   |
|                          |                         | 2022                          | Jan                      | 3.13                 | 3.32 <sup>r</sup> | 3.59              |
|                          |                         |                               | Feb                      | 3.13                 | 3.32              | 3.71 <sup>r</sup> |
|                          | Mac                     | 3.13                          | 3.32                     | 3.71                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.4 A7, MS145                                     | 2021                    | Mac                           | 3.01                     | 2.88                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.11                     | 3.52                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.11                     | 3.52                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.11                     | 3.52                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.11                     | 3.52                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.11                     | 3.52                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.11                     | 3.52                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.11                     | 3.52                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.31                     | 3.52                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.31                     | 3.52                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.31                 | 3.44 <sup>r</sup> | 3.59              |
|                                                     |                         |                               | Feb                      | 3.31                 | 3.44              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.31                          | 3.44                     | 3.71                 |                   |                   |
| 3.4.5 A8, MS145                                     | 2021                    | Mac                           | 3.00                     | 2.57                 | 3.63              |                   |
|                                                     |                         | Apr                           | 3.10                     | 3.12                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.10                     | 3.12                 | 3.56              |                   |
|                                                     |                         | Jun                           | 3.10                     | 3.12                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.10                     | 3.12                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.10                     | 3.12                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.10                     | 3.12                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.10                     | 3.12                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.31                     | 3.12                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.31                     | 3.12                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.31                 | 3.03 <sup>r</sup> | 3.59              |
|                                                     |                         |                               | Feb                      | 3.31                 | 3.03              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.31                          | 3.03                     | 3.71                 |                   |                   |
| 3.4.6 A9, MS145                                     | 2021                    | Mac                           | 2.69                     | 2.57                 | 3.62              |                   |
|                                                     |                         | Apr                           | 2.79                     | 2.86                 | 3.30              |                   |
|                                                     |                         | Mei                           | 2.79                     | 2.86                 | 3.55              |                   |
|                                                     |                         | Jun                           | 2.79                     | 2.86                 | 3.59              |                   |
|                                                     |                         | Jul                           | 2.79                     | 2.86                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 2.79                     | 2.86                 | 3.60              |                   |
|                                                     |                         | Sept                          | 2.79                     | 2.86                 | 3.60              |                   |
|                                                     |                         | Okt                           | 2.79                     | 2.86                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.00                     | 2.86                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.00                     | 2.86                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.00                 | 2.79 <sup>r</sup> | 3.59              |
|                                                     |                         |                               | Feb                      | 3.00                 | 2.79              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.00                          | 2.79                     | 3.71                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.7 A10, MS145                                    | 2021                    | Mac                           | 3.04                     | 2.44                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.24                     | 2.87                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 2.87                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 2.87                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 2.87                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 2.87                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 2.87                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 2.87                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 2.87                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 2.87                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 2.80 <sup>r</sup> | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 2.80              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 2.80                     | 3.71                 |                   |                   |
| 3.4.8 B5, MS145                                     | 2021                    | Mac                           | 3.38                     | 2.87                 | 4.03              |                   |
|                                                     |                         | Apr                           | 3.60                     | 3.52                 | 3.67              |                   |
|                                                     |                         | Mei                           | 3.60                     | 3.52                 | 3.95              |                   |
|                                                     |                         | Jun                           | 3.60                     | 3.52                 | 3.99              |                   |
|                                                     |                         | Jul                           | 3.60                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Ogos                          | 3.57                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Sept                          | 3.57                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Okt                           | 3.57                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Nov                           | 4.06                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Dis                           | 4.06                     | 3.52                 | 3.99 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.06                 | 3.45              | 3.99              |
|                                                     |                         |                               | Feb                      | 4.06                 | 3.45              | 4.12 <sup>r</sup> |
|                                                     | Mac                     | 4.06                          | 3.45                     | 4.12                 |                   |                   |
| 3.4.9 B6, MS145                                     | 2021                    | Mac                           | 3.04                     | 2.58                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.24                     | 3.10                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 3.10                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 3.10                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 3.10                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 3.10                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 3.10                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 3.10                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.10                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.10                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 3.03              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 3.03              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 3.03                     | 3.71                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.10 B7, MS145                                    | 2021                    | Mac                           | 3.04                     | 2.58                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.24                     | 2.85                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 2.85                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 2.85                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 2.85                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 2.85                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 2.85                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 2.85                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 2.85                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 2.85                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 2.81              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 2.81              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 2.81                     | 3.71                 |                   |                   |
| 3.4.11 B8, MS145                                    | 2021                    | Mac                           | 3.04                     | 2.59                 | 3.63              |                   |
|                                                     |                         | Apr                           | 3.25                     | 3.00                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.25                     | 3.00                 | 3.56              |                   |
|                                                     |                         | Jun                           | 3.25                     | 3.00                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.25                     | 3.00                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.25                     | 3.00                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.25                     | 3.00                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.25                     | 3.00                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.00                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.00                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 2.93              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 2.93              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 2.93                     | 3.71                 |                   |                   |
| 3.4.12 B9, MS145                                    | 2021                    | Mac                           | 3.04                     | 2.47                 | 3.63              |                   |
|                                                     |                         | Apr                           | 3.24                     | 2.70                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 2.70                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 2.70                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 2.70                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 2.70                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 2.70                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 2.70                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 2.70                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 2.70                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 2.62              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 2.62              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 2.62                     | 3.71                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.13 B10, MS145                                   | 2021                    | Mac                           | 3.04                     | 2.58                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.24                     | 2.97                 | 3.29              |                   |
|                                                     |                         | Mei                           | 3.24                     | 2.97                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 2.97                 | 3.58              |                   |
|                                                     |                         | Jul                           | 3.24                     | 2.97                 | 3.59              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 2.97                 | 3.59              |                   |
|                                                     |                         | Sept                          | 3.24                     | 2.97                 | 3.59              |                   |
|                                                     |                         | Okt                           | 3.24                     | 2.97                 | 3.59              |                   |
|                                                     |                         | Nov                           | 3.64                     | 2.97                 | 3.59              |                   |
|                                                     |                         | Dis                           | 3.64                     | 2.97                 | 3.58 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.64                 | 2.90              | 3.58              |
|                                                     |                         |                               | Feb                      | 3.64                 | 2.90              | 3.70 <sup>r</sup> |
|                                                     | Mac                     | 3.64                          | 2.90                     | 3.70                 |                   |                   |
| 3.4.14 B12, MS145                                   | 2021                    | Mac                           | 3.36                     | 2.90                 | 4.01              |                   |
|                                                     |                         | Apr                           | 3.58                     | 3.16                 | 3.65              |                   |
|                                                     |                         | Mei                           | 3.58                     | 3.16                 | 3.93              |                   |
|                                                     |                         | Jun                           | 3.58                     | 3.16                 | 3.97              |                   |
|                                                     |                         | Jul                           | 3.58                     | 3.16                 | 3.98              |                   |
|                                                     |                         | Ogos                          | 3.58                     | 3.16                 | 3.98              |                   |
|                                                     |                         | Sept                          | 3.58                     | 3.16                 | 3.98              |                   |
|                                                     |                         | Okt                           | 3.58                     | 3.16                 | 3.98              |                   |
|                                                     |                         | Nov                           | 4.03                     | 3.16                 | 3.98              |                   |
|                                                     |                         | Dis                           | 4.03                     | 3.16                 | 3.97 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.03                 | 3.09              | 3.97              |
|                                                     |                         |                               | Feb                      | 4.03                 | 3.09              | 4.10 <sup>r</sup> |
|                                                     | Mac                     | 4.03                          | 3.09                     | 4.10                 |                   |                   |
| 3.4.15 C5, MS145                                    | 2021                    | Mac                           | 3.38                     | 3.28                 | 4.03              |                   |
|                                                     |                         | Apr                           | 3.61                     | 4.05                 | 3.67              |                   |
|                                                     |                         | Mei                           | 3.61                     | 4.04                 | 3.95              |                   |
|                                                     |                         | Jun                           | 3.61                     | 4.04                 | 3.99              |                   |
|                                                     |                         | Jul                           | 3.61                     | 4.04                 | 4.00              |                   |
|                                                     |                         | Ogos                          | 3.61                     | 4.04                 | 4.00              |                   |
|                                                     |                         | Sept                          | 3.61                     | 4.04                 | 4.00              |                   |
|                                                     |                         | Okt                           | 3.61                     | 4.04                 | 4.00              |                   |
|                                                     |                         | Nov                           | 4.06                     | 4.04                 | 4.00              |                   |
|                                                     |                         | Dis                           | 4.06                     | 4.05                 | 3.99 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.06                 | 3.93              | 3.99              |
|                                                     |                         |                               | Feb                      | 4.06                 | 3.93              | 4.12 <sup>r</sup> |
|                                                     | Mac                     | 4.06                          | 3.93                     | 4.12                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.16 C6, MS145                                    | 2021                    | Mac                           | 3.38                     | 3.19                 | 4.03              |                   |
|                                                     |                         | Apr                           | 3.61                     | 3.74                 | 3.67              |                   |
|                                                     |                         | Mei                           | 3.61                     | 3.74                 | 3.95              |                   |
|                                                     |                         | Jun                           | 3.61                     | 3.74                 | 3.99              |                   |
|                                                     |                         | Jul                           | 3.61                     | 3.74                 | 4.00              |                   |
|                                                     |                         | Ogos                          | 3.61                     | 3.74                 | 4.00              |                   |
|                                                     |                         | Sept                          | 3.61                     | 3.74                 | 4.00              |                   |
|                                                     |                         | Okt                           | 3.61                     | 3.74                 | 4.00              |                   |
|                                                     |                         | Nov                           | 4.05                     | 3.74                 | 4.00              |                   |
|                                                     |                         | Dis                           | 4.05                     | 3.74                 | 3.99 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.05                 | 3.67              | 3.99              |
|                                                     |                         |                               | Feb                      | 4.05                 | 3.67              | 4.12 <sup>r</sup> |
|                                                     | Mac                     | 4.05                          | 3.67                     | 4.12                 |                   |                   |
| 3.4.17 C7, MS145                                    | 2021                    | Mac                           | 3.38                     | 3.20                 | 4.03              |                   |
|                                                     |                         | Apr                           | 3.60                     | 3.68                 | 3.67              |                   |
|                                                     |                         | Mei                           | 3.60                     | 3.68                 | 3.95              |                   |
|                                                     |                         | Jun                           | 3.60                     | 3.68                 | 3.99              |                   |
|                                                     |                         | Jul                           | 3.60                     | 3.68                 | 4.00              |                   |
|                                                     |                         | Ogos                          | 3.60                     | 3.68                 | 4.00              |                   |
|                                                     |                         | Sept                          | 3.60                     | 3.68                 | 4.00              |                   |
|                                                     |                         | Okt                           | 3.60                     | 3.68                 | 4.00              |                   |
|                                                     |                         | Nov                           | 4.05                     | 3.68                 | 4.00              |                   |
|                                                     |                         | Dis                           | 4.05                     | 3.68                 | 3.99 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.05                 | 3.61              | 3.99              |
|                                                     |                         |                               | Feb                      | 4.05                 | 3.61              | 4.12 <sup>r</sup> |
|                                                     | Mac                     | 4.05                          | 3.61                     | 4.12                 |                   |                   |
| 3.4.18 C8, MS145                                    | 2021                    | Mac                           | 3.37                     | 3.15                 | 4.02              |                   |
|                                                     |                         | Apr                           | 3.59                     | 3.65                 | 3.66              |                   |
|                                                     |                         | Mei                           | 3.59                     | 3.65                 | 3.94              |                   |
|                                                     |                         | Jun                           | 3.59                     | 3.65                 | 3.98              |                   |
|                                                     |                         | Jul                           | 3.59                     | 3.65                 | 3.99              |                   |
|                                                     |                         | Ogos                          | 3.59                     | 3.65                 | 3.99              |                   |
|                                                     |                         | Sept                          | 3.59                     | 3.65                 | 3.99              |                   |
|                                                     |                         | Okt                           | 3.59                     | 3.65                 | 3.99              |                   |
|                                                     |                         | Nov                           | 4.04                     | 3.65                 | 3.99              |                   |
|                                                     |                         | Dis                           | 4.04                     | 3.65                 | 3.98 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.04                 | 3.58              | 3.98              |
|                                                     |                         |                               | Feb                      | 4.04                 | 3.58              | 4.11 <sup>r</sup> |
|                                                     | Mac                     | 4.04                          | 3.58                     | 4.11                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.19 C9, MS145                                    | 2021                    | Mac                           | 3.37                     | 3.16                 | 4.02              |                   |
|                                                     |                         | Apr                           | 3.60                     | 3.60                 | 3.66              |                   |
|                                                     |                         | Mei                           | 3.60                     | 3.60                 | 3.94              |                   |
|                                                     |                         | Jun                           | 3.60                     | 3.60                 | 3.98              |                   |
|                                                     |                         | Jul                           | 3.60                     | 3.60                 | 3.99              |                   |
|                                                     |                         | Ogos                          | 3.60                     | 3.60                 | 3.99              |                   |
|                                                     |                         | Sept                          | 3.60                     | 3.60                 | 3.99              |                   |
|                                                     |                         | Okt                           | 3.60                     | 3.60                 | 3.99              |                   |
|                                                     |                         | Nov                           | 4.05                     | 3.60                 | 3.99              |                   |
|                                                     |                         | Dis                           | 4.05                     | 3.60                 | 3.98 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.05                 | 3.55              | 3.98              |
|                                                     |                         |                               | Feb                      | 4.05                 | 3.55              | 4.11 <sup>r</sup> |
|                                                     | Mac                     | 4.05                          | 3.55                     | 4.11                 |                   |                   |
| 3.4.20 C10, MS145                                   | 2021                    | Mac                           | 3.38                     | 3.17                 | 4.02              |                   |
|                                                     |                         | Apr                           | 3.60                     | 3.52                 | 3.66              |                   |
|                                                     |                         | Mei                           | 3.60                     | 3.52                 | 3.94              |                   |
|                                                     |                         | Jun                           | 3.60                     | 3.52                 | 3.98              |                   |
|                                                     |                         | Jul                           | 3.60                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Ogos                          | 3.60                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Sept                          | 3.60                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Okt                           | 3.60                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Nov                           | 4.05                     | 3.52                 | 4.00              |                   |
|                                                     |                         | Dis                           | 4.05                     | 3.52                 | 3.98 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.05                 | 3.48              | 3.98              |
|                                                     |                         |                               | Feb                      | 4.05                 | 3.48              | 4.12 <sup>r</sup> |
|                                                     | Mac                     | 4.05                          | 3.48                     | 4.12                 |                   |                   |
| 3.4.21 DA4, MS145                                   | 2021                    | Mac                           | 3.41                     | 3.28                 | 4.06              |                   |
|                                                     |                         | Apr                           | 3.64                     | 3.89                 | 3.70              |                   |
|                                                     |                         | Mei                           | 3.64                     | 3.89                 | 3.98              |                   |
|                                                     |                         | Jun                           | 3.64                     | 3.89                 | 4.02              |                   |
|                                                     |                         | Jul                           | 3.64                     | 3.89                 | 4.04              |                   |
|                                                     |                         | Ogos                          | 3.64                     | 3.89                 | 4.04              |                   |
|                                                     |                         | Sept                          | 3.64                     | 3.89                 | 4.04              |                   |
|                                                     |                         | Okt                           | 3.64                     | 3.89                 | 4.04              |                   |
|                                                     |                         | Nov                           | 4.09                     | 3.89                 | 4.04              |                   |
|                                                     |                         | Dis                           | 4.09                     | 3.89                 | 4.02 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.09                 | 3.80              | 4.02              |
|                                                     |                         |                               | Feb                      | 4.09                 | 3.80              | 4.16 <sup>r</sup> |
|                                                     | Mac                     | 4.09                          | 3.80                     | 4.16                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.22 DA5, MS145                                   | 2021                    | Mac                           | 3.39                     | 3.18                 | 4.04              |                   |
|                                                     |                         | Apr                           | 3.62                     | 3.82                 | 3.68              |                   |
|                                                     |                         | Mei                           | 3.62                     | 3.82                 | 3.96              |                   |
|                                                     |                         | Jun                           | 3.62                     | 3.82                 | 4.00              |                   |
|                                                     |                         | Jul                           | 3.62                     | 3.82                 | 4.01              |                   |
|                                                     |                         | Ogos                          | 3.62                     | 3.82                 | 4.01              |                   |
|                                                     |                         | Sept                          | 3.62                     | 3.82                 | 4.01              |                   |
|                                                     |                         | Okt                           | 3.62                     | 3.82                 | 4.01              |                   |
|                                                     |                         | Nov                           | 4.07                     | 3.82                 | 4.01              |                   |
|                                                     |                         | Dis                           | 4.07                     | 3.82                 | 4.00 <sup>f</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 4.07                 | 3.74              | 4.00              |
|                                                     |                         |                               | Feb                      | 4.07                 | 3.74              | 4.13 <sup>f</sup> |
|                                                     | Mac                     | 4.07                          | 3.74                     | 4.13                 |                   |                   |
| 3.4.23 DA6, MS145                                   | 2021                    | Mac                           | 3.04                     | 2.85                 | 3.63              |                   |
|                                                     |                         | Apr                           | 3.24                     | 3.42                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 3.42                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 3.42                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 3.42                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 3.42                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 3.42                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 3.42                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.42                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.42                 | 3.59 <sup>f</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 3.35              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 3.35              | 3.71 <sup>f</sup> |
|                                                     | Mac                     | 3.65                          | 3.35                     | 3.71                 |                   |                   |
| 3.4.24 DA7, MS145                                   | 2021                    | Mac                           | 3.04                     | 2.85                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.24                     | 3.25                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 3.25                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 3.25                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 3.25                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 3.25                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 3.25                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 3.25                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.25                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.25                 | 3.59 <sup>f</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 3.21              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 3.21              | 3.71 <sup>f</sup> |
|                                                     | Mac                     | 3.65                          | 3.21                     | 3.71                 |                   |                   |

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

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

| Item                                                | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>      |                          |                      |                   |                   |
|-----------------------------------------------------|-------------------------|-------------------------------|--------------------------|----------------------|-------------------|-------------------|
|                                                     |                         | Utara<br><i>North</i>         | Tengah<br><i>Central</i> | Timur<br><i>East</i> |                   |                   |
| 3.4 Fabric Reinforcement (samb.)<br><i>(cont'd)</i> |                         | RM Per Kg<br><i>RM Per Kg</i> |                          |                      |                   |                   |
| 3.4.25 DA8, MS145                                   | 2021                    | Mac                           | 3.04                     | 2.85                 | 3.63              |                   |
|                                                     |                         | Apr                           | 3.24                     | 3.18                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 3.18                 | 3.56              |                   |
|                                                     |                         | Jun                           | 3.24                     | 3.18                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 3.18                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 3.18                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 3.18                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 3.18                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.18                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.18                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 3.14              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 3.14              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 3.14                     | 3.71                 |                   |                   |
| 3.4.26 DA9, MS145                                   | 2021                    | Mac                           | 3.04                     | 3.10                 | 3.62              |                   |
|                                                     |                         | Apr                           | 3.24                     | 3.57                 | 3.30              |                   |
|                                                     |                         | Mei                           | 3.24                     | 3.57                 | 3.55              |                   |
|                                                     |                         | Jun                           | 3.24                     | 3.57                 | 3.59              |                   |
|                                                     |                         | Jul                           | 3.24                     | 3.57                 | 3.60              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 3.57                 | 3.60              |                   |
|                                                     |                         | Sept                          | 3.24                     | 3.57                 | 3.60              |                   |
|                                                     |                         | Okt                           | 3.24                     | 3.57                 | 3.60              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.57                 | 3.60              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.57                 | 3.59 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 3.57              | 3.59              |
|                                                     |                         |                               | Feb                      | 3.65                 | 3.57              | 3.71 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 3.57                     | 3.71                 |                   |                   |
| 3.4.27 DA10, MS145                                  | 2021                    | Mac                           | 3.04                     | 3.10                 | 3.61              |                   |
|                                                     |                         | Apr                           | 3.24                     | 3.56                 | 3.28              |                   |
|                                                     |                         | Mei                           | 3.24                     | 3.56                 | 3.54              |                   |
|                                                     |                         | Jun                           | 3.24                     | 3.56                 | 3.57              |                   |
|                                                     |                         | Jul                           | 3.24                     | 3.56                 | 3.58              |                   |
|                                                     |                         | Ogos                          | 3.24                     | 3.56                 | 3.58              |                   |
|                                                     |                         | Sept                          | 3.24                     | 3.56                 | 3.58              |                   |
|                                                     |                         | Okt                           | 3.24                     | 3.56                 | 3.58              |                   |
|                                                     |                         | Nov                           | 3.65                     | 3.56                 | 3.58              |                   |
|                                                     |                         | Dis                           | 3.65                     | 3.56                 | 3.57 <sup>r</sup> |                   |
|                                                     |                         | 2022                          | Jan                      | 3.65                 | 3.56              | 3.57              |
|                                                     |                         |                               | Feb                      | 3.65                 | 3.56              | 3.69 <sup>r</sup> |
|                                                     | Mac                     | 3.65                          | 3.56                     | 3.69                 |                   |                   |

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

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

| Item                        | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>            |                          |                      |
|-----------------------------|-------------------------|-------------------------------------|--------------------------|----------------------|
|                             |                         | Utara<br><i>North</i>               | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| 3.5 Guardrail               |                         | RM Per Meter<br><i>RM Per Metre</i> |                          |                      |
| 3.5.1 Single Mounted        | 2021 Mac                | 147.15                              | 148.85                   | 152.40               |
| 3.5.1.i 1.95m Post Spacing  | Apr                     | 168.35                              | 170.00                   | 173.60               |
|                             | Mei                     | 168.35                              | 170.00                   | 173.60               |
|                             | Jun                     | 168.35                              | 170.00                   | 173.60               |
|                             | Jul                     | 168.35                              | 170.00                   | 173.60               |
|                             | Ogos                    | 168.35                              | 170.00                   | 173.60               |
|                             | Sept                    | 168.35                              | 170.00                   | 173.60               |
|                             | Okt                     | 168.35                              | 170.00                   | 173.60               |
|                             | Nov                     | 168.35                              | 170.00                   | 173.60               |
|                             | Dis                     | 168.35                              | 170.00                   | 173.60               |
|                             | 2022 Jan                | 168.35                              | 170.00                   | 173.60               |
|                             | Feb                     | 168.35                              | 170.00                   | 173.60               |
|                             | Mac                     | 168.35                              | 170.00                   | 173.60               |
| 3.5.1.ii 3.80m Post Spacing | 2021 Mac                | 103.30                              | 104.50                   | 107.00               |
|                             | Apr                     | 119.00                              | 120.15                   | 122.70               |
|                             | Mei                     | 119.00                              | 120.15                   | 122.70               |
|                             | Jun                     | 119.00                              | 120.15                   | 122.70               |
|                             | Jul                     | 119.00                              | 120.15                   | 122.70               |
|                             | Ogos                    | 119.00                              | 120.15                   | 122.70               |
|                             | Sept                    | 119.00                              | 120.15                   | 122.70               |
|                             | Okt                     | 119.00                              | 120.15                   | 122.70               |
|                             | Nov                     | 119.00                              | 120.15                   | 122.70               |
|                             | Dis                     | 119.00                              | 120.15                   | 122.70               |
|                             | 2022 Jan                | 119.00                              | 120.15                   | 122.70               |
|                             | Feb                     | 119.00                              | 120.15                   | 122.70               |
|                             | Mac                     | 119.00                              | 120.15                   | 122.70               |

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

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

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

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

| Item                                            | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                   |                          |                      |
|-------------------------------------------------|-------------------------|--------------------------------------------|--------------------------|----------------------|
|                                                 |                         | Utara<br><i>North</i>                      | Tengah<br><i>Central</i> | Timur<br><i>East</i> |
| <b>3.5 Guardrail (samb.)</b><br><i>(cont'd)</i> |                         | <b>RM Per Meter</b><br><i>RM Per Metre</i> |                          |                      |
| <b>3.5.2 Double Mounted</b>                     | <b>2021 Mac</b>         | 224.80                                     | 227.30                   | 232.60               |
| <b>3.5.2.i 1.95m Post Spacing</b>               | <b>Apr</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Mei</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Jun</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Jul</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Ogos</b>             | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Sept</b>             | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Okt</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Nov</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Dis</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>2022 Jan</b>         | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Feb</b>              | 257.80                                     | 260.30                   | 265.60               |
|                                                 | <b>Mac</b>              | 257.80                                     | 260.30                   | 265.60               |
| <b>3.5.2.ii 3.80m Post Spacing</b>              | <b>2021 Mac</b>         | 171.90                                     | 173.80                   | 177.90               |
|                                                 | <b>Apr</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Mei</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Jun</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Jul</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Ogos</b>             | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Sept</b>             | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Okt</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Nov</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Dis</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>2022 Jan</b>         | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Feb</b>              | 198.55                                     | 200.45                   | 204.60               |
|                                                 | <b>Mac</b>              | 198.55                                     | 200.45                   | 204.60               |

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

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

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

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

| Item                                               | Tempoh<br>Period | Kawasan<br>Region                           |
|----------------------------------------------------|------------------|---------------------------------------------|
|                                                    |                  | Semenanjung Malaysia<br>Peninsular Malaysia |
| <b>3.6.a Paip Air</b><br><i>Water Pipe</i>         |                  | <b>RM Per Meter</b><br><i>RM Per Metre</i>  |
| <b>3.6.a.1 Mild Steel Pipe</b><br><b>300mm</b>     | <b>2021 Mac</b>  | 291.00                                      |
|                                                    | <b>Apr</b>       | 324.00 <sup>r</sup>                         |
|                                                    | <b>Mei</b>       | 348.00 <sup>r</sup>                         |
|                                                    | <b>Jun</b>       | 348.00 <sup>r</sup>                         |
|                                                    | <b>Jul</b>       | 335.00                                      |
|                                                    | <b>Ogos</b>      | 325.00                                      |
|                                                    | <b>Sept</b>      | 322.00                                      |
|                                                    | <b>Okt</b>       | 326.00                                      |
|                                                    | <b>Nov</b>       | 321.00                                      |
|                                                    | <b>Dis</b>       | 321.00                                      |
|                                                    | <b>2022 Jan</b>  | 318.00 <sup>r</sup>                         |
|                                                    | <b>Feb</b>       | 319.00                                      |
|                                                    | <b>Mac</b>       | 339.00                                      |
| <b>3.6.a.2 Stainless Steel Pipe</b><br><b>25mm</b> | <b>2021 Mac</b>  | n.a.                                        |
|                                                    | <b>Apr</b>       | n.a.                                        |
|                                                    | <b>Mei</b>       | n.a.                                        |
|                                                    | <b>Jun</b>       | n.a.                                        |
|                                                    | <b>Jul</b>       | n.a.                                        |
|                                                    | <b>Ogos</b>      | n.a.                                        |
|                                                    | <b>Sept</b>      | n.a.                                        |
|                                                    | <b>Okt</b>       | n.a.                                        |
|                                                    | <b>Nov</b>       | n.a.                                        |
|                                                    | <b>Dis</b>       | n.a.                                        |
|                                                    | <b>2022 Jan</b>  | n.a.                                        |
|                                                    | <b>Feb</b>       | n.a.                                        |
|                                                    | <b>Mac</b>       | n.a.                                        |
| <b>3.6.a.3 Ductile Iron Pipe</b><br><b>300mm</b>   | <b>2021 Mac</b>  | n.a.                                        |
|                                                    | <b>Apr</b>       | n.a.                                        |
|                                                    | <b>Mei</b>       | n.a.                                        |
|                                                    | <b>Jun</b>       | n.a.                                        |
|                                                    | <b>Jul</b>       | n.a.                                        |
|                                                    | <b>Ogos</b>      | n.a.                                        |
|                                                    | <b>Sept</b>      | n.a.                                        |
|                                                    | <b>Okt</b>       | n.a.                                        |
|                                                    | <b>Nov</b>       | n.a.                                        |
|                                                    | <b>Dis</b>       | n.a.                                        |
|                                                    | <b>2022 Jan</b>  | n.a.                                        |
|                                                    | <b>Feb</b>       | n.a.                                        |
|                                                    | <b>Mac</b>       | n.a.                                        |

**Nota: Harga bagi paip air dan paip pembetulan adalah harga di kilang.**

*Notes: 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<br>Period | Kawasan<br>Region                           |
|-----------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------|
|                                                                                                                       |                  | Semenanjung Malaysia<br>Peninsular Malaysia |
| <b>3.6.a. Paip Air (samb.)</b><br><i>Water Pipe (cont'd)</i>                                                          |                  | <b>RM Per Meter</b><br><i>RM Per Metre</i>  |
| <b>3.6.a.4 High Density Polyethylene (HDPE) Pipe</b><br><b>3.6.a.4.i. Compression Fitting Using For Jointing 25mm</b> | 2021 Mac         | n.a.                                        |
|                                                                                                                       | Apr              | n.a.                                        |
|                                                                                                                       | Mei              | n.a.                                        |
|                                                                                                                       | Jun              | n.a.                                        |
|                                                                                                                       | Jul              | n.a.                                        |
|                                                                                                                       | Ogos             | n.a.                                        |
|                                                                                                                       | Sept             | n.a.                                        |
|                                                                                                                       | Okt              | n.a.                                        |
|                                                                                                                       | Nov              | n.a.                                        |
|                                                                                                                       | Dis              | n.a.                                        |
|                                                                                                                       | 2022 Jan         | n.a.                                        |
|                                                                                                                       | Feb              | n.a.                                        |
|                                                                                                                       | Mac              | n.a.                                        |
| <b>3.6.a.4.ii. Electrofusion Jointing 160mm</b>                                                                       | 2021 Mac         | n.a.                                        |
|                                                                                                                       | Apr              | n.a.                                        |
|                                                                                                                       | Mei              | n.a.                                        |
|                                                                                                                       | Jun              | n.a.                                        |
|                                                                                                                       | Jul              | n.a.                                        |
|                                                                                                                       | Ogos             | n.a.                                        |
|                                                                                                                       | Sept             | n.a.                                        |
|                                                                                                                       | Okt              | n.a.                                        |
|                                                                                                                       | Nov              | n.a.                                        |
|                                                                                                                       | Dis              | n.a.                                        |
|                                                                                                                       | 2022 Jan         | n.a.                                        |
|                                                                                                                       | Feb              | n.a.                                        |
|                                                                                                                       | Mac              | n.a.                                        |
| <b>3.6.a.4.iii. Butt Fusion 160mm</b>                                                                                 | 2021 Mac         | n.a.                                        |
|                                                                                                                       | Apr              | n.a.                                        |
|                                                                                                                       | Mei              | n.a.                                        |
|                                                                                                                       | Jun              | n.a.                                        |
|                                                                                                                       | Jul              | n.a.                                        |
|                                                                                                                       | Ogos             | n.a.                                        |
|                                                                                                                       | Sept             | n.a.                                        |
|                                                                                                                       | Okt              | n.a.                                        |
|                                                                                                                       | Nov              | n.a.                                        |
|                                                                                                                       | Dis              | n.a.                                        |
|                                                                                                                       | 2022 Jan         | n.a.                                        |
|                                                                                                                       | Feb              | n.a.                                        |
|                                                                                                                       | Mac              | n.a.                                        |

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

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

| Item                                                                                                   | Tempoh<br>Period | Kawasan<br>Region                           |
|--------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------|
|                                                                                                        |                  | Semenanjung Malaysia<br>Peninsular Malaysia |
| <b>3.6.b Paip Pembetulan (samb.)</b><br><i>Sewerage Pipe (cont'd)</i>                                  |                  | <b>RM Per Meter</b><br><i>RM Per Metre</i>  |
| <b>3.6.b.1 Mild Steel Pipe</b><br><b>300mm</b>                                                         | <b>2021 Mac</b>  | 314.28                                      |
|                                                                                                        | <b>Apr</b>       | 349.92 <sup>r</sup>                         |
|                                                                                                        | <b>Mei</b>       | 375.84 <sup>r</sup>                         |
|                                                                                                        | <b>Jun</b>       | 375.84 <sup>r</sup>                         |
|                                                                                                        | <b>Jul</b>       | 361.80                                      |
|                                                                                                        | <b>Ogos</b>      | 351.00                                      |
|                                                                                                        | <b>Sept</b>      | 347.76                                      |
|                                                                                                        | <b>Okt</b>       | 352.08                                      |
|                                                                                                        | <b>Nov</b>       | 346.68                                      |
|                                                                                                        | <b>Dis</b>       | 346.68                                      |
|                                                                                                        | <b>2022 Jan</b>  | 343.00 <sup>r</sup>                         |
|                                                                                                        | <b>Feb</b>       | 344.00                                      |
|                                                                                                        | <b>Mac</b>       | 365.65                                      |
| <b>3.6.b.2 Ductile Iron Pipe</b><br><b>250mm</b>                                                       | <b>2021 Mac</b>  | n.a.                                        |
|                                                                                                        | <b>Apr</b>       | n.a.                                        |
|                                                                                                        | <b>Mei</b>       | n.a.                                        |
|                                                                                                        | <b>Jun</b>       | n.a.                                        |
|                                                                                                        | <b>Jul</b>       | n.a.                                        |
|                                                                                                        | <b>Ogos</b>      | n.a.                                        |
|                                                                                                        | <b>Sept</b>      | n.a.                                        |
|                                                                                                        | <b>Okt</b>       | n.a.                                        |
|                                                                                                        | <b>Nov</b>       | n.a.                                        |
|                                                                                                        | <b>Dis</b>       | n.a.                                        |
|                                                                                                        | <b>2022 Jan</b>  | n.a.                                        |
|                                                                                                        | <b>Feb</b>       | n.a.                                        |
|                                                                                                        | <b>Mac</b>       | n.a.                                        |
| <b>3.6.b.3 High Density Polyethylene (HDPE) Pipe</b><br><b>3.6.b.3.i. Profile Pipe</b><br><b>150mm</b> | <b>2021 Mac</b>  | n.a.                                        |
|                                                                                                        | <b>Apr</b>       | n.a.                                        |
|                                                                                                        | <b>Mei</b>       | n.a.                                        |
|                                                                                                        | <b>Jun</b>       | n.a.                                        |
|                                                                                                        | <b>Jul</b>       | n.a.                                        |
|                                                                                                        | <b>Ogos</b>      | n.a.                                        |
|                                                                                                        | <b>Sept</b>      | n.a.                                        |
|                                                                                                        | <b>Okt</b>       | n.a.                                        |
|                                                                                                        | <b>Nov</b>       | n.a.                                        |
|                                                                                                        | <b>Dis</b>       | n.a.                                        |
|                                                                                                        | <b>2022 Jan</b>  | n.a.                                        |
|                                                                                                        | <b>Feb</b>       | n.a.                                        |
|                                                                                                        | <b>Mac</b>       | n.a.                                        |

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

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

| Item                                                                            | Tempoh<br>Period | Kawasan<br>Region                           |
|---------------------------------------------------------------------------------|------------------|---------------------------------------------|
|                                                                                 |                  | Semenanjung Malaysia<br>Peninsular Malaysia |
| 3.6.b Paip Pembetungan (samb.)<br>Sewerage Pipe (cont'd)                        |                  | RM Per Meter<br>RM Per Metre                |
| 3.6.b.3 High Density Polyethylene (HDPE) Pipe<br>3.6.b.3.ii Solid Pipe<br>250mm | 2021 Mac         | 108.02                                      |
|                                                                                 | Apr              | 108.02                                      |
|                                                                                 | Mei              | 108.02                                      |
|                                                                                 | Jun              | 108.02                                      |
|                                                                                 | Jul              | 108.02                                      |
|                                                                                 | Ogos             | 108.02                                      |
|                                                                                 | Sept             | 108.02                                      |
|                                                                                 | Okt              | 108.02                                      |
|                                                                                 | Nov              | 108.02                                      |
|                                                                                 | Dis              | 108.02                                      |
|                                                                                 | 2022 Jan         | 108.02                                      |
|                                                                                 | Feb              | 108.02                                      |
|                                                                                 | Mac              | 108.02                                      |
| 3.6.b.4 Vitrified Clay Pipe<br>3.6.b.4.i Standard Pipe<br>225mm                 | 2021 Mac         | 121.34 <sup>f</sup>                         |
|                                                                                 | Apr              | 121.34 <sup>f</sup>                         |
|                                                                                 | Mei              | 121.34 <sup>f</sup>                         |
|                                                                                 | Jun              | 126.37                                      |
|                                                                                 | Jul              | 126.37                                      |
|                                                                                 | Ogos             | 126.37                                      |
|                                                                                 | Sept             | 126.37                                      |
|                                                                                 | Okt              | 126.37                                      |
|                                                                                 | Nov              | 126.37                                      |
|                                                                                 | Dis              | 126.37                                      |
|                                                                                 | 2022 Jan         | 126.37                                      |
|                                                                                 | Feb              | 126.37                                      |
|                                                                                 | Mac              | 126.37                                      |
| 3.6.b.4.ii Jacking Pipe<br>225mm                                                | 2021 Mac         | n.a.                                        |
|                                                                                 | Apr              | n.a.                                        |
|                                                                                 | Mei              | n.a.                                        |
|                                                                                 | Jun              | n.a.                                        |
|                                                                                 | Jul              | n.a.                                        |
|                                                                                 | Ogos             | n.a.                                        |
|                                                                                 | Sept             | n.a.                                        |
|                                                                                 | Okt              | n.a.                                        |
|                                                                                 | Nov              | n.a.                                        |
|                                                                                 | Dis              | n.a.                                        |
|                                                                                 | 2022 Jan         | n.a.                                        |
|                                                                                 | Feb              | n.a.                                        |
|                                                                                 | Mac              | n.a.                                        |

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

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

| Item                                                                                       | Tempoh<br>Period | Kawasan<br>Region                           |
|--------------------------------------------------------------------------------------------|------------------|---------------------------------------------|
|                                                                                            |                  | Semenanjung Malaysia<br>Peninsular Malaysia |
| <b>3.6.b Paip Pembetulan (samb.)</b><br><i>Sewerage Pipe (cont'd)</i>                      |                  | <b>RM Per Meter</b><br><i>RM Per Metre</i>  |
| <b>3.6.b.5 Reinforced Concrete Pipe</b><br><b>3.6.b.5.i Without Lining</b><br><b>900mm</b> | <b>2021 Mac</b>  | 248.00                                      |
|                                                                                            | <b>Apr</b>       | 248.00                                      |
|                                                                                            | <b>Mei</b>       | 248.00                                      |
|                                                                                            | <b>Jun</b>       | 248.00                                      |
|                                                                                            | <b>Jul</b>       | 248.00                                      |
|                                                                                            | <b>Ogos</b>      | 248.00                                      |
|                                                                                            | <b>Sept</b>      | 248.00                                      |
|                                                                                            | <b>Okt</b>       | 248.00                                      |
|                                                                                            | <b>Nov</b>       | 248.00                                      |
|                                                                                            | <b>Dis</b>       | 248.00                                      |
|                                                                                            | <b>2022 Jan</b>  | 248.00                                      |
|                                                                                            | <b>Feb</b>       | 248.00                                      |
|                                                                                            | <b>Mac</b>       | 248.00                                      |
| <b>3.6.b.5.ii With Lining (High Alumina)</b><br><b>900mm</b>                               | <b>2021 Mac</b>  | n.a.                                        |
|                                                                                            | <b>Apr</b>       | n.a.                                        |
|                                                                                            | <b>Mei</b>       | n.a.                                        |
|                                                                                            | <b>Jun</b>       | n.a.                                        |
|                                                                                            | <b>Jul</b>       | n.a.                                        |
|                                                                                            | <b>Ogos</b>      | n.a.                                        |
|                                                                                            | <b>Sept</b>      | n.a.                                        |
|                                                                                            | <b>Okt</b>       | n.a.                                        |
|                                                                                            | <b>Nov</b>       | n.a.                                        |
|                                                                                            | <b>Dis</b>       | n.a.                                        |
|                                                                                            | <b>2022 Jan</b>  | n.a.                                        |
|                                                                                            | <b>Feb</b>       | n.a.                                        |
|                                                                                            | <b>Mac</b>       | n.a.                                        |
| <b>3.6.b.5.iii With Lining (Sacrificial Lining)</b><br><b>900mm</b>                        | <b>2021 Mac</b>  | n.a.                                        |
|                                                                                            | <b>Apr</b>       | n.a.                                        |
|                                                                                            | <b>Mei</b>       | n.a.                                        |
|                                                                                            | <b>Jun</b>       | n.a.                                        |
|                                                                                            | <b>Jul</b>       | n.a.                                        |
|                                                                                            | <b>Ogos</b>      | n.a.                                        |
|                                                                                            | <b>Sept</b>      | n.a.                                        |
|                                                                                            | <b>Okt</b>       | n.a.                                        |
|                                                                                            | <b>Nov</b>       | n.a.                                        |
|                                                                                            | <b>Dis</b>       | n.a.                                        |
|                                                                                            | <b>2022 Jan</b>  | n.a.                                        |
|                                                                                            | <b>Feb</b>       | n.a.                                        |
|                                                                                            | <b>Mac</b>       | n.a.                                        |

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

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

| Item                                           | Tempoh<br><i>Period</i> | Kawasan<br><i>Region</i>                           |
|------------------------------------------------|-------------------------|----------------------------------------------------|
|                                                |                         | Semenanjung Malaysia<br><i>Peninsular Malaysia</i> |
| 3.6.b Paip Pembetungan<br><i>Sewerage Pipe</i> |                         | RM Per Meter<br><i>RM Per Metre</i>                |
| 3.6.b.6 ABS Pipe                               | 2021 Mac                | 48.80                                              |
| 3.6.b.6.i Gravity<br>110mm                     | Apr                     | 48.80                                              |
|                                                | Mei                     | 48.80                                              |
|                                                | Jun                     | 48.80                                              |
|                                                | Jul                     | 48.80                                              |
|                                                | Ogos                    | 48.80                                              |
|                                                | Sept                    | 48.80                                              |
|                                                | Okt                     | 48.80                                              |
|                                                | Nov                     | 48.80                                              |
|                                                | Dis                     | 48.80                                              |
|                                                | 2022 Jan                | 48.80                                              |
|                                                | Feb                     | 48.80                                              |
|                                                | Mac                     | 48.80                                              |
| 3.6.b.6.ii Force Main<br>225mm                 | 2021 Mac                | n.a.                                               |
|                                                | Apr                     | n.a.                                               |
|                                                | Mei                     | n.a.                                               |
|                                                | Jun                     | n.a.                                               |
|                                                | Jul                     | n.a.                                               |
|                                                | Ogos                    | n.a.                                               |
|                                                | Sept                    | n.a.                                               |
|                                                | Okt                     | n.a.                                               |
|                                                | Nov                     | n.a.                                               |
|                                                | Dis                     | n.a.                                               |
|                                                | 2022 Jan                | n.a.                                               |
|                                                | Feb                     | n.a.                                               |
|                                                | Mac                     | n.a.                                               |

**NOTA TEKNIKAL**  
*TECHNICAL NOTES*

**Muka surat ini sengaja dibiarkan kosong.**

*This page is deliberately left blank.*

## NOTA TEKNIKAL

1. Harga bar keluli, simen dan *fabric reinforcement* yang diterbitkan dalam Siaran Khas 1 ini diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia.
2. Harga yang dilaporkan mengikut 3 kawasan di Semenanjung Malaysia adalah seperti berikut:

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| Utara  | = Perlis, Kedah, Pulau Pinang dan Perak                                         |
| Tengah | = Wilayah Persekutuan Kuala Lumpur, Melaka, Negeri Sembilan, Selangor dan Johor |
| Timur  | = Pahang, Terengganu dan Kelantan                                               |

3. Bermula Mei 2017, bitumen penembusan 80/100 telah ditukar kepada 60/70. Harga bitumen penembusan 60/70 adalah berdasarkan harga purata ex-Kuala Lumpur.
4. Faktor pelarasan bagi kategori dan saiz paip yang tidak diterbitkan dalam Siaran Khas 1 ini adalah seperti di **Lampiran A**.
5. Harga bagi bahan-bahan binaan lain (yang tidak dinyatakan di atas) adalah diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia.
6. Semua harga yang tersebut di atas adalah bagi tujuan pengiraan kadar perubahan harga sahaja dan tidak boleh digunakan untuk mewakili kedudukan harga yang sebenar.

## TECHNICAL NOTES

1. The prices for steel bars, cement and *fabric reinforcement* published in this Special Release 1 are obtained from the price collection conducted by Department of Statistics, Malaysia.
2. Prices reported according to 3 regions in Peninsular Malaysia are as follows:

|         |                                                                                 |
|---------|---------------------------------------------------------------------------------|
| North   | = Perlis, Kedah, Pulau Pinang and Perak                                         |
| Central | = Wilayah Persekutuan Kuala Lumpur, Melaka, Negeri Sembilan, Selangor and Johor |
| East    | = Pahang, Terengganu and Kelantan                                               |

3. Starting May 2017, the bitumen 80/100 penetration has been converted into 60/70. The price for bitumen 60/70 penetration is based on average ex-Kuala Lumpur.
4. The adjustment factors for the other categories and sizes not published in this Special Release 1 are shown in **Appendix A**.
5. The prices for other building materials (not stated above) are obtained from the price collection conducted by Department of Statistics, Malaysia.
6. All prices mentioned above are relevant for escalation purposes only and should not be used to represent actual price levels.

## SINGKATAN/SIMBOL

|     |                   |
|-----|-------------------|
| n.a | = Tidak diperoleh |
| r   | = Kemaskini       |

## ABBREVIATION/SYMBOLS

|     |                 |
|-----|-----------------|
| n.a | = Not available |
| r   | = Revised       |

**Muka surat ini sengaja dibiarkan kosong.**

*This page is deliberately left blank.*

**LAMPIRAN**

*APPENDIX*

**Muka surat ini sengaja dibiarkan kosong.**

*This page is deliberately left blank.*

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

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

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

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

**Jadual faktor pelarasan bagi paip air dan paip pembedungan (samb.)**

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

| Kategori dan saiz paip<br><i>Category and size of pipe</i> | Faktor pelarasan<br><i>Adjustment factor</i> |
|------------------------------------------------------------|----------------------------------------------|
| <b>Paip air</b><br><i>Water pipe</i>                       |                                              |
| ii. Electrofusion Jointing (samb. / cont'd)                |                                              |
| 450 mm Ø "                                                 |                                              |
| 500 "                                                      |                                              |
| 560 "                                                      |                                              |
| iii. Butt Fussion                                          |                                              |
| 110 mm Ø                                                   | 0.48                                         |
| 125 "                                                      | 0.62                                         |
| 140 "                                                      | 0.76                                         |
| 160 "                                                      | 1.00                                         |
| 180 "                                                      | 1.25                                         |
| 200 "                                                      | 1.56                                         |
| 225 "                                                      | 1.94                                         |
| 250 "                                                      | 2.38                                         |
| 280 "                                                      | 2.97                                         |
| 315 "                                                      | 3.76                                         |
| 355 "                                                      | 4.79                                         |
| 400 "                                                      | 6.06                                         |
| 450 "                                                      | 7.90                                         |
| 500 "                                                      | 7.90                                         |
| 560 "                                                      | 12.61                                        |

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

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

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

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

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

| Kategori dan saiz paip<br><i>Category and size of pipe</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Faktor pelarasan<br><i>Adjustment factor</i> |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--|
| <p><b>Paip pembetungan</b><br/><i>Sewerage pipe</i></p> <p>ii. HDPE (Solid) Pipe</p> <table> <tr><td>100 mm Ø</td><td>0.20</td></tr> <tr><td>125 "</td><td>0.25</td></tr> <tr><td>150 "</td><td>0.50</td></tr> <tr><td>200 "</td><td>0.65</td></tr> <tr><td>250 "</td><td>1.00</td></tr> <tr><td>300 "</td><td>1.50</td></tr> <tr><td>350 "</td><td>2.00</td></tr> <tr><td>400 "</td><td>2.69</td></tr> <tr><td>450 "</td><td>3.51</td></tr> <tr><td>500 "</td><td>4.48</td></tr> <tr><td>550 "</td><td>5.50</td></tr> <tr><td>600 "</td><td>6.00</td></tr> <tr><td>650 "</td><td>7.50</td></tr> <tr><td>700 "</td><td>8.50</td></tr> <tr><td>750 "</td><td>10.00</td></tr> <tr><td>800 "</td><td>11.75</td></tr> <tr><td>850 "</td><td>15.00</td></tr> <tr><td>900 "</td><td>16.50</td></tr> <tr><td>950 "</td><td>18.00</td></tr> <tr><td>1000 "</td><td>20.40</td></tr> <tr><td>1200 "</td><td>24.00</td></tr> <tr><td>1400 "</td><td>26.00</td></tr> <tr><td>1600 "</td><td>32.00</td></tr> <tr><td>1800 "</td><td>36.00</td></tr> <tr><td>2000 "</td><td>38.00</td></tr> <tr><td>2100 "</td><td>42.00</td></tr> <tr><td>2200 "</td><td>45.00</td></tr> </table> | 100 mm Ø                                     | 0.20 | 125 " | 0.25 | 150 " | 0.50 | 200 " | 0.65 | 250 " | 1.00 | 300 " | 1.50 | 350 " | 2.00 | 400 " | 2.69 | 450 " | 3.51 | 500 " | 4.48 | 550 " | 5.50 | 600 " | 6.00 | 650 " | 7.50 | 700 " | 8.50 | 750 " | 10.00 | 800 " | 11.75 | 850 " | 15.00 | 900 " | 16.50 | 950 " | 18.00 | 1000 " | 20.40 | 1200 " | 24.00 | 1400 " | 26.00 | 1600 " | 32.00 | 1800 " | 36.00 | 2000 " | 38.00 | 2100 " | 42.00 | 2200 " | 45.00 |  |
| 100 mm Ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.20                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 125 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.25                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 150 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.50                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.65                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 250 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.00                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 300 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.50                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 350 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 400 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.69                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 450 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.51                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 500 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.48                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 550 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.50                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.00                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 650 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7.50                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 700 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8.50                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 750 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11.75                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 850 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 900 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16.50                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 950 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 1000 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20.40                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 1200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 1400 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 1600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 1800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 2000 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 38.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 2100 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 42.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |
| 2200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 45.00                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |       |       |       |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |  |

**Jadual faktor pelarasan bagi paip air dan paip pembetungan (samb.)**

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

| Kategori dan saiz paip<br><i>Category and size of pipe</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Faktor pelarasan<br><i>Adjustment factor</i> |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|----------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|--|
| <p><b>Paip pembetungan</b><br/><i>Sewerage pipe</i></p> <p>4. Vitrified Clay Pipe</p> <p>i. Vitrified Clay (Standard) Pipe</p> <table> <tr><td>100 mm Ø</td><td>0.40</td></tr> <tr><td>150 "</td><td>0.52</td></tr> <tr><td>200 "</td><td>0.84</td></tr> <tr><td>225 "</td><td>1.00</td></tr> <tr><td>300 "</td><td>2.37</td></tr> <tr><td>375 "</td><td>4.24</td></tr> <tr><td>400 "</td><td>4.95</td></tr> <tr><td>450 "</td><td>5.63</td></tr> <tr><td>500 "</td><td>7.96</td></tr> <tr><td>600 "</td><td>11.78</td></tr> <tr><td>700 "</td><td>14.33</td></tr> <tr><td>800 "</td><td>14.50</td></tr> </table> <p>ii. Vitrified Clay (Jacking) Pipe</p> <table> <tr><td>100 mm Ø</td><td>0.80</td></tr> <tr><td>150 "</td><td>0.85</td></tr> <tr><td>200 "</td><td>0.90</td></tr> <tr><td>225 "</td><td>1.00</td></tr> <tr><td>300 "</td><td>1.60</td></tr> <tr><td>375 "</td><td>1.87</td></tr> <tr><td>400 "</td><td>2.17</td></tr> <tr><td>450 "</td><td>2.60</td></tr> <tr><td>500 "</td><td>3.22</td></tr> <tr><td>600 "</td><td>3.75</td></tr> <tr><td>700 "</td><td>4.15</td></tr> <tr><td>800 "</td><td>4.65</td></tr> </table> | 100 mm Ø                                     | 0.40 | 150 " | 0.52 | 200 " | 0.84 | 225 " | 1.00 | 300 " | 2.37 | 375 " | 4.24 | 400 " | 4.95 | 450 " | 5.63 | 500 " | 7.96 | 600 " | 11.78 | 700 " | 14.33 | 800 " | 14.50 | 100 mm Ø | 0.80 | 150 " | 0.85 | 200 " | 0.90 | 225 " | 1.00 | 300 " | 1.60 | 375 " | 1.87 | 400 " | 2.17 | 450 " | 2.60 | 500 " | 3.22 | 600 " | 3.75 | 700 " | 4.15 | 800 " | 4.65 |  |
| 100 mm Ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.40                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 150 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.52                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.84                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 225 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.00                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 300 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.37                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 375 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.24                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 400 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.95                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 450 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5.63                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 500 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 7.96                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11.78                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 700 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14.33                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14.50                                        |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 100 mm Ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.80                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 150 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.85                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.90                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 225 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.00                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 300 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.60                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 375 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.87                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 400 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.17                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 450 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.60                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 500 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.22                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.75                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 700 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.15                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |
| 800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.65                                         |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |       |       |       |       |       |          |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |  |

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

| Kategori dan saiz paip<br><i>Category and size of pipe</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Faktor pelarasan<br><i>Adjustment factor</i> |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------|-------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|----------|------|-------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|----------|------|-------|------|-------|------|-------|------|-------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--|
| <p><b>Paip pembetulan</b><br/><i>Sewerage pipe</i></p> <p>5. Reinforced Concrete Pipe (RCP)</p> <p>i. Without Lining</p> <table> <tr><td>375 mm Ø</td><td>0.26</td></tr> <tr><td>450 "</td><td>0.31</td></tr> <tr><td>600 "</td><td>0.47</td></tr> <tr><td>750 "</td><td>0.69</td></tr> <tr><td>900 "</td><td>1.00</td></tr> <tr><td>1050 "</td><td>1.33</td></tr> <tr><td>1200 "</td><td>1.56</td></tr> <tr><td>1350 "</td><td>1.97</td></tr> <tr><td>1500 "</td><td>2.44</td></tr> <tr><td>1650 "</td><td>2.80</td></tr> <tr><td>1800 "</td><td>3.59</td></tr> </table> <p>ii. With Lining (High Alumina)</p> <table> <tr><td>375 mm Ø</td><td>0.26</td></tr> <tr><td>450 "</td><td>0.31</td></tr> <tr><td>600 "</td><td>0.47</td></tr> <tr><td>750 "</td><td>0.69</td></tr> <tr><td>900 "</td><td>1.00</td></tr> <tr><td>1050 "</td><td>1.33</td></tr> <tr><td>1200 "</td><td>1.56</td></tr> <tr><td>1350 "</td><td>1.97</td></tr> <tr><td>1500 "</td><td>2.44</td></tr> <tr><td>1650 "</td><td>2.80</td></tr> <tr><td>1800 "</td><td>3.59</td></tr> </table> <p>iii. With Lining (Sacrificial Lining)</p> <table> <tr><td>375 mm Ø</td><td>0.26</td></tr> <tr><td>450 "</td><td>0.31</td></tr> <tr><td>600 "</td><td>0.47</td></tr> <tr><td>750 "</td><td>0.69</td></tr> <tr><td>900 "</td><td>1.00</td></tr> <tr><td>1050 "</td><td>1.33</td></tr> <tr><td>1200 "</td><td>1.56</td></tr> <tr><td>1350 "</td><td>1.97</td></tr> <tr><td>1500 "</td><td>2.44</td></tr> <tr><td>1650 "</td><td>2.80</td></tr> <tr><td>1800 "</td><td>3.59</td></tr> </table> | 375 mm Ø                                     | 0.26 | 450 " | 0.31 | 600 " | 0.47 | 750 " | 0.69 | 900 " | 1.00 | 1050 " | 1.33 | 1200 " | 1.56 | 1350 " | 1.97 | 1500 " | 2.44 | 1650 " | 2.80 | 1800 " | 3.59 | 375 mm Ø | 0.26 | 450 " | 0.31 | 600 " | 0.47 | 750 " | 0.69 | 900 " | 1.00 | 1050 " | 1.33 | 1200 " | 1.56 | 1350 " | 1.97 | 1500 " | 2.44 | 1650 " | 2.80 | 1800 " | 3.59 | 375 mm Ø | 0.26 | 450 " | 0.31 | 600 " | 0.47 | 750 " | 0.69 | 900 " | 1.00 | 1050 " | 1.33 | 1200 " | 1.56 | 1350 " | 1.97 | 1500 " | 2.44 | 1650 " | 2.80 | 1800 " | 3.59 |  |
| 375 mm Ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.26                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 450 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.31                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.47                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 750 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.69                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 900 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.00                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1050 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.33                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.56                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1350 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.97                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1500 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.44                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1650 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.80                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.59                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 375 mm Ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.26                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 450 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.31                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.47                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 750 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.69                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 900 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.00                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1050 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.33                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.56                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1350 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.97                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1500 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.44                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1650 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.80                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.59                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 375 mm Ø                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.26                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 450 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.31                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 600 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.47                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 750 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.69                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 900 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.00                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1050 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.33                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1200 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.56                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1350 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.97                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1500 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.44                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1650 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.80                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |
| 1800 "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.59                                         |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |          |      |       |      |       |      |       |      |       |      |        |      |        |      |        |      |        |      |        |      |        |      |  |

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

| <b>Kategori dan saiz paip</b><br><i>Category and size of pipe</i> | <b>Faktor pelarasan</b><br><i>Adjustment factor</i> |
|-------------------------------------------------------------------|-----------------------------------------------------|
| <p><b>Paip pembetulan</b><br/><i>Sewerage pipe</i></p>            |                                                     |
| <p>6. ABS Pipe</p>                                                |                                                     |
| <p>i. Gravity</p>                                                 |                                                     |
| 90 mm Ø                                                           | 0.67                                                |
| 110 "                                                             | 1.00                                                |
| 150 "                                                             | 2.07                                                |
| 225 "                                                             | 3.64                                                |
| 315 "                                                             | 7.10                                                |
| <p>ii. Force Main</p>                                             |                                                     |
| 15 mm Ø                                                           | 0.01                                                |
| 20 "                                                              | 0.02                                                |
| 25 "                                                              | 0.03                                                |
| 32 "                                                              | 0.04                                                |
| 40 "                                                              | 0.05                                                |
| 50 "                                                              | 0.08                                                |
| 65 "                                                              | 0.15                                                |
| 80 "                                                              | 0.18                                                |
| 100 "                                                             | 0.30                                                |
| 150 "                                                             | 0.61                                                |
| 200 "                                                             | 1.13                                                |
| 225 "                                                             | 1.00                                                |
| 250 "                                                             | 3.73                                                |
| 280 "                                                             | 1.48                                                |
| 315 "                                                             | 1.87                                                |
| 355 "                                                             | 2.37                                                |
| 400 "                                                             | 3.01                                                |
| 450 "                                                             | 3.81                                                |
| 500 "                                                             | 4.71                                                |
| 630 "                                                             | 7.47                                                |

**Sasaran Tarikh Pengumuman Siaran Khas 1**  
**(Untuk Kerja-Kerja Kejuruteraan Awam), Semenanjung Malaysia, 2022**  
*Scheduled Release Dates for Special Release 1*  
*(For Civil Engineering Works), Peninsular Malaysia, 2022*

| <b>Tahun</b><br><i>Year</i> | <b>Bulan Rujukan</b><br><i>Reference Month</i> | <b>Tahun</b><br><i>Year</i> | <b>Tarikh Pengumuman</b><br><i>Release Date</i> |
|-----------------------------|------------------------------------------------|-----------------------------|-------------------------------------------------|
| <b>2022</b>                 | <b>Januari</b><br><i>January</i>               | <b>2022</b>                 | <b>10 Februari</b><br><i>10 February</i>        |
|                             | <b>Februari</b><br><i>February</i>             |                             | <b>10 Mac</b><br><i>10 March</i>                |
|                             | <b>Mac</b><br><i>March</i>                     |                             | <b>08 April</b><br><i>08 April</i>              |
|                             | <b>April</b><br><i>April</i>                   |                             | <b>11 Mei</b><br><i>11 May</i>                  |
|                             | <b>Mei</b><br><i>May</i>                       |                             | <b>09 Jun</b><br><i>09 June</i>                 |
|                             | <b>Jun</b><br><i>June</i>                      |                             | <b>07 Julai</b><br><i>07 July</i>               |
|                             | <b>Julai</b><br><i>July</i>                    |                             | <b>10 Ogos</b><br><i>10 August</i>              |
|                             | <b>Ogos</b><br><i>August</i>                   |                             | <b>08 September</b><br><i>08 September</i>      |
|                             | <b>September</b><br><i>September</i>           |                             | <b>11 Oktober</b><br><i>11 October</i>          |
|                             | <b>Oktober</b><br><i>October</i>               |                             | <b>09 November</b><br><i>09 November</i>        |
|                             | <b>November</b><br><i>November</i>             |                             | <b>08 Disember</b><br><i>08 December</i>        |
|                             | <b>Disember</b><br><i>December</i>             | <b>2023</b>                 | <b>09 Januari</b><br><i>09 January</i>          |