



SURUHANJAYA PERKHIDMATAN AIR NEGARA

GARIS PANDUAN INDUSTRI PEMBETUNGAN MALAYSIA

**JILID II : PROSEDUR KERJA-KERJA
PEMBETUNGAN**

**RISIKO RENDAH - TANGKI SEPTIK,
SAMBUNGAN &
SISTEM RAWATAN KUMBAHAN KECIL**

**EDISI KHAS 2014
(RISIKO RENDAH)**

ISI KANDUNGAN**Mukasurat**

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PERKARA 1.0

PENGENALAN

1.0 MODEL BARU PROSES KELULUSAN

Garis Panduan Industri Pembetungan Malaysia Jilid II : Prosedur Kerja-Kerja Pembetungan Edisi Khas ini disediakan bagi menjelaskan berkenaan model baru prosedur kelulusan semakan pelan dan spesifikasi kerja-kerja pembetungan yang merupakan inisiatif penambahbaikan berterusan oleh Suruhanjaya Perkhidmatan Air Negara (SPAN) dalam memperkemaskan sistem penyampaian perkhidmatan dengan lebih efisien, efektif dan telus.

Di bawah model baru ini, mekanisma prosedur kelulusan yang digunakan adalah berpandukan kepada tahap risiko yang dikategorikan samada risiko rendah, risiko sederhana atau risiko tinggi bergantung kepada jenis infrastruktur pembetungan yang dibina.

1.1 RUJUKAN NORMATIF

Dokumen ini perlu dibaca bersama-sama dengan rujukan berikut:

- i. Akta Industri Perkhidmatan Air 2006 (Akta 655)
- ii. Peraturan-Peraturan Industri Perkhidmatan Air (Kumpulan Wang Sumbangan Modal Pembetungan) 2011
- iii. Peraturan-Peraturan Industri Perkhidmatan Air (Pelesenan) 2007
- iv. Kaedah-Kaedah Industri Perkhidmatan Air (Perancangan, Reka bentuk Dan Pembinaan Sistem Pembetungan Dan Tangki Septik) 2013
- v. Kaedah-Kaedah Industri Perkhidmatan Air (Permit) 2007
- vi. Garis Panduan Industri Pembetungan Malaysia Jilid II (Edisi 2 Pindaan v1: Julai 2013)

1.2 SKOP DAN KRITERIA

Prosedur kelulusan model baru di bawah kategori Risiko Rendah adalah khusus untuk:

- i. Pembangunan yang dibenarkan untuk menggunakan **tangki septik**.
- ii. Membuat **penyambungan** dari kebuk pemeriksaan/lurang sesuatu premis ke sistem pembetungan sedia ada dan tidak melibatkan keperluan untuk membina rangkaian/jajaran paip pembetung (sewer).
- iii. Pembangunan bagi satu premis tunggal berkapasiti penduduk setara di antara 31 PE hingga 150 PE yang menggunakan **Sistem Rawatan Kumbahan Kecil (Small Sewage Treatment System - SSTS)**.

Prosedur kelulusan risiko rendah hanya melibatkan dua (2) proses sahaja iaitu:

| PROSES | PROSEDUR |
|--------|--|
| 1 | <p>Permohonan Kelulusan Kerja Pembetungan (Sewerage Works Application – SWA)</p> <ul style="list-style-type: none"> • Merangkumi elemen perancangan dan spesifikasi reka bentuk. • Pengisytiharan pematuhan ke atas segala syarat keperluan yang digariskan oleh orang yang kompeten. • Kelulusan reka bentuk oleh agensi perakuan adalah atas prinsip pengesahan penerimaan berdasarkan kepada pengisytiharan perakuan pematuhan oleh orang yang kompeten merujuk kepada keperluan dan spesifikasi yang telah ditetapkan oleh SPAN. |
| 2 | <p>Notis Perakuan Siap Kerja Pembetungan (Sewerage Works Completion – SWC)</p> <ul style="list-style-type: none"> • Pengisytiharan oleh orang yang kompeten bahawa kerja pembinaan infrastruktur pembetungan telah siap disempurnakan dengan mematuhi pelan perancangan dan spesifikasi reka bentuk yang telah diluluskan. |

1.3 TARIKH PEMAKAIAN

Tarikh pemakaian prosedur baru kelulusan risiko rendah adalah bermula pada **1 APRIL 2014**.

Ia terpakai kepada :

- i. Permohonan baru (bermula daripada perancangan) yang dikemukakan pada dan selepas 1 April 2014; atau
- ii. Permohonan yang telah mendapat kelulusan perancangan (PDC 1), reka bentuk (PDC 2) dan notis mula kerja (PDC 6) berdasarkan kepada Garis Panduan Jilid II (Edisi 2 Pindaan v1 Julai 2013) sebelum 1 April 2014.

1.4 PENGEMUKAAN DOKUMEN

Dokumen permohonan hendaklah dikemukakan kepada Agensi Perakuan Pembetungan (APP) yang dilantik oleh Suruhanjaya Perkhidmatan Air Negara (SPAN) iaitu :

- i. Indah Water Konsortium Sdn Bhd bagi semua negeri di Semenanjung Malaysia (kecuali Kelantan) dan Wilayah Persekutuan Kuala Lumpur, Labuan dan Putrajaya; dan
- ii. Majaari Services Sdn Bhd bagi negeri Kelantan.

1.5 PERANAN DAN TANGGUNGJAWAB

Peranan dan tanggungjawab pemaju dan orang yang kompeten adalah sebagaimana yang telah digariskan di dalam Kaedah-Kaedah Industri Perkhidmatan Air (Perancangan, Rekabentuk Dan Pembinaan Sistem Pembetungan Dan Tangki Septik) 2013 dan Garis Panduan Jilid II (Edisi 2 Pindaan v1: Julai 2013).

1.6 FI PEMPROSESAN

Tatacara pembayaran fi pemprosesan adalah sebagaimana yang dinyatakan di dalam Garis Panduan Jilid II (Edisi 2 Pindaan v1: Julai 2013).

Amaun bayaran fi pemprosesan bagi SWA dan SWC adalah merujuk kepada Jadual 1 di dalam Perkara 4.0 Lampiran.

Fi yang dikenakan adalah untuk pengemukaan permulaan dan pengemukaan semula pertama. Fi akan dikenakan untuk setiap pengemukaan semula kali kedua.

PERKARA 2.0

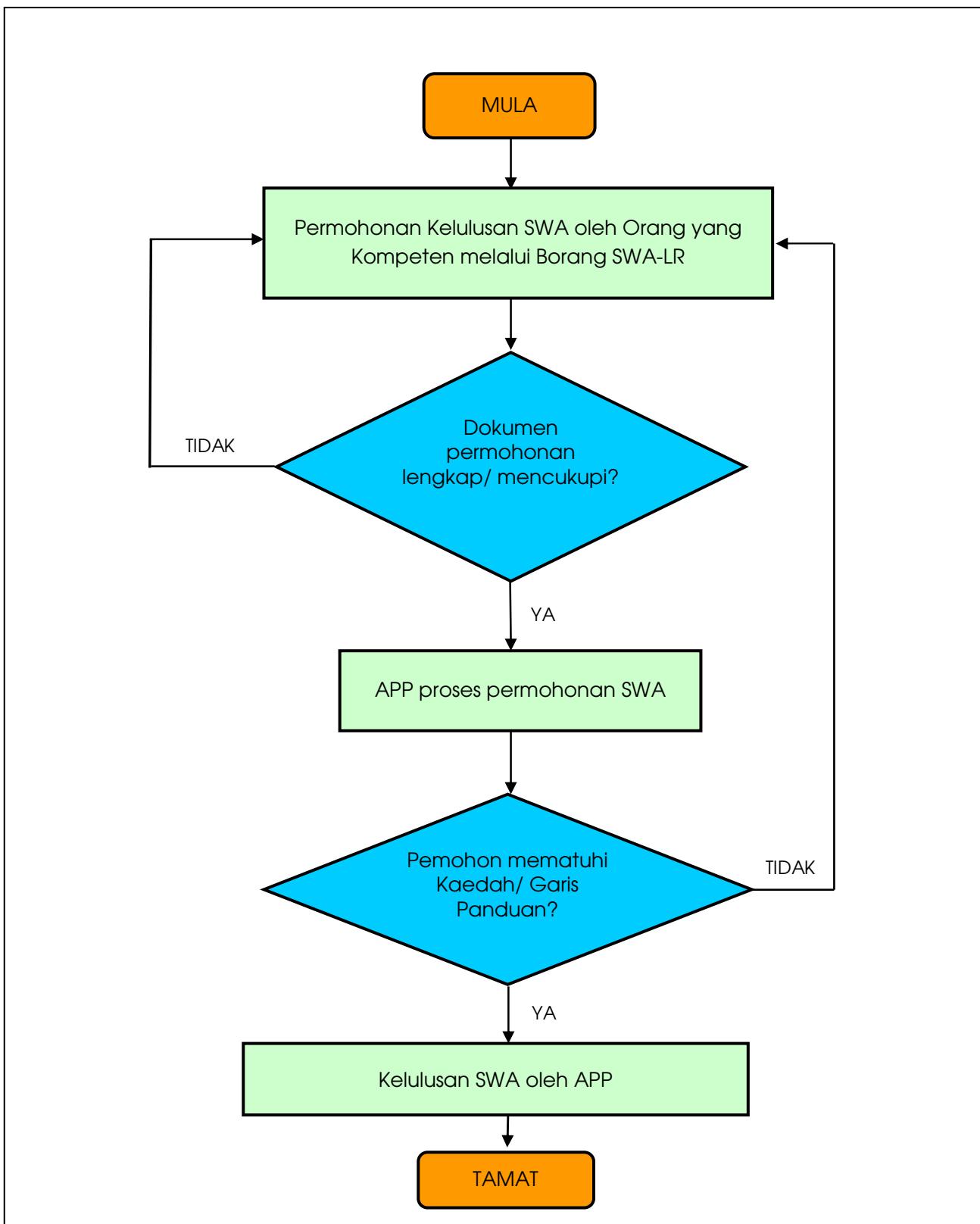
PROSEDUR KELULUSAN

2.1 PERMOHONAN KELULUSAN KERJA PEMBETUNGAN (SWA)

| PROSEDUR | PERMOHONAN KELULUSAN KERJA PEMBETUNGAN (SWA) |
|------------------------------|--|
| PERKARA AM | Merangkumi elemen perancangan, spesifikasi reka bentuk dan kebenaran mula kerja. |
| KEPERLUAN DOKUMENTASI | <p>BORANG Borang SWA-LR</p> <p>DOKUMEN</p> <ul style="list-style-type: none"> a) Surat iringan dari OSC (jika melalui OSC) atau surat iringan daripada orang yang kompeten. b) Laporan Kejuruteraan (pembangunan melebihi 150 PE) c) Ringkasan Kejuruteraan (pembangunan sehingga 150 PE) <p>PELAN</p> <ul style="list-style-type: none"> a) Pelan Susun Atur Pembetungan b) Pelan Perincian Reka Bentuk <p>KWSMP</p> <p>Bayaran sumbangan kepada Kumpulan Wang Sumbangan Modal Pembetungan (KWSMP) merujuk kepada Peraturan-Peraturan Industri Perkhidmatan Air (Kumpulan Wang Sumbangan Modal Pembetungan) 2011 untuk Tangki Septik dan Sistem Rawatan Kumbahan Kecil (SSTS).</p> |
| FI PEMPROSESAN | <p>FI</p> <ul style="list-style-type: none"> a) Bayaran fi merujuk kepada Jadual 1. b) Perlu dijelaskan semasa permohonan dikemukakan. |
| TEMPOH PEMPROSESAN | Tempoh pemprosesan oleh APP adalah 14 hari kalender . |

| PROSEDUR | PERMOHONAN KELULUSAN KERJA PEMBETUNGAN (SWA) |
|------------------|---|
| ULASAN | <p>a) APP boleh mengeluarkan ulasan supaya pindaan dibuat ke atas permohonan yang dikemukakan.</p> <p>b) Orang yang kompeten hendaklah mengemukakan semula permohonan dalam tempoh 6 bulan daripada tarikh pengeluaran notis ulasan daripada APP. Kegagalan berbuat demikian dianggap sebagai permohonan baru.</p> |
| KELULUSAN | <p>a) APP akan mengeluarkan surat kelulusan bersama-sama dengan syarat-syarat yang berkaitan.</p> <p>b) Tempoh sah bagi kelulusan adalah selama 2 tahun dari tarikh surat kelulusan.</p> <p>c) Kerja pembinaan hendaklah disiapkan dalam tempoh kelulusan SWA.</p> <p>d) Sebarang permohonan lanjutan masa kelulusan perlu dikemukakan kepada APP 3 bulan sebelum tamat tempoh kelulusan tersebut.</p> |

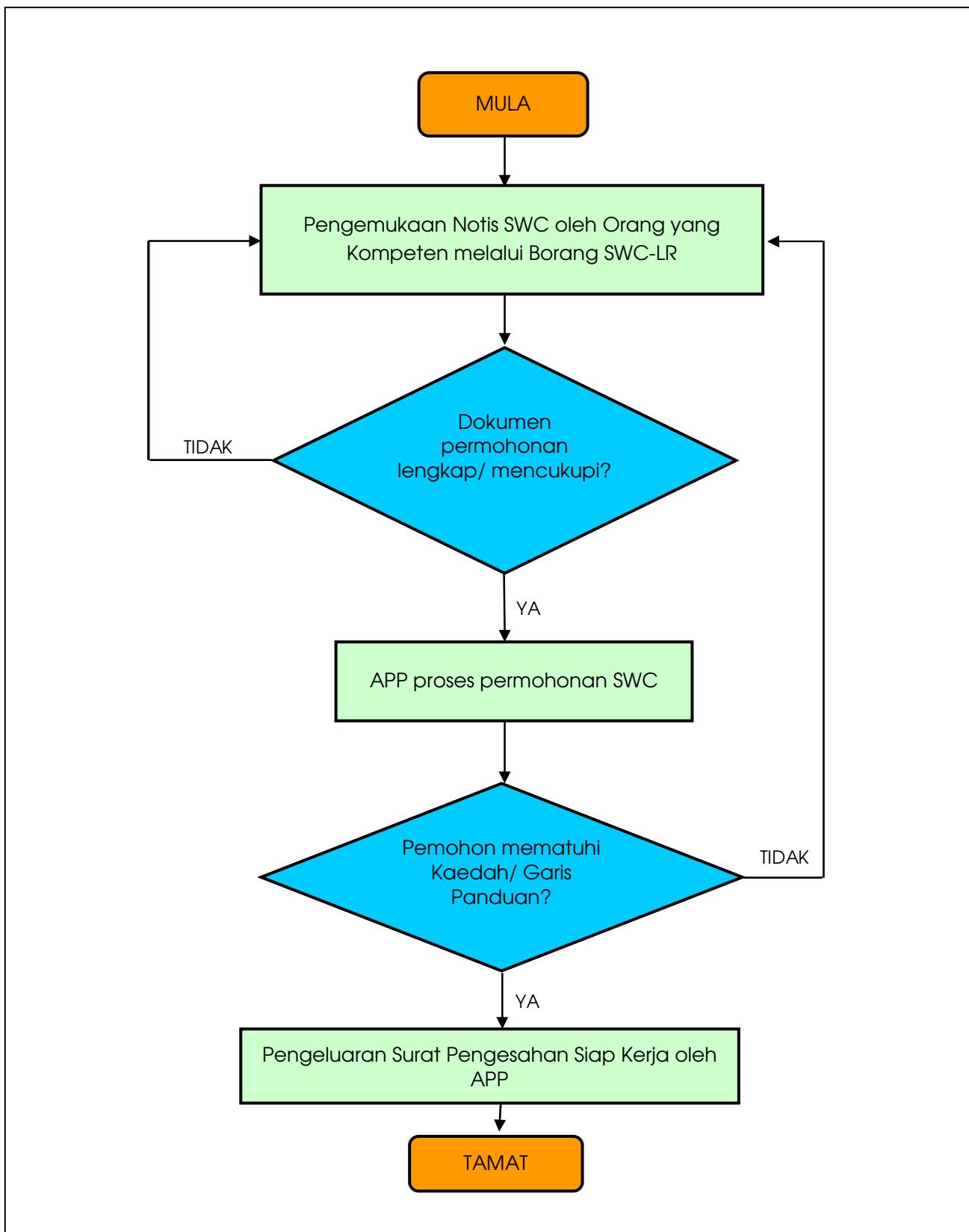
2.1.1 CARTA ALIR PERMOHONAN KELULUSAN KERJA PEMBETUNGAN (SWA)



2.2 NOTIS PERAKUAN SIAP KERJA PEMBETUNGAN (SWC)

| PROSEDUR | NOTIS PERAKUAN SIAP KERJA PEMBETUNGAN (SWC) |
|------------------------------|---|
| PERKARA AM | Pengisytiharan oleh orang yang kompeten berdasarkan kepada pelan perancangan dan spesifikasi reka bentuk yang telah diluluskan. |
| KEPERLUAN DOKUMENTASI | <p>BORANG Borang SWC-LR</p> <p>DOKUMEN</p> <ul style="list-style-type: none"> a) Surat iringan dari OSC (jika melalui OSC) atau surat iringan daripada orang yang kompeten. b) Salinan Permit SPAN c) Senarai nama pembeli (pengebilan) <p>PELAN Pelan Siap Bina (<i>As-Built</i>) Susun Atur</p> <p>KWSMP Bayaran sumbangan kepada Kumpulan Wang Sumbangan Modal Pembetungan (KWSMP) merujuk kepada Peraturan-Peraturan Industri Perkhidmatan Air (Kumpulan Wang Sumbangan Modal Pembetungan) 2011 untuk sambungan.</p> |
| FI PEMPROSESAN | <p>FI (yang mana berkaitan)</p> <ul style="list-style-type: none"> a) Bayaran fi merujuk kepada Jadual 1. b) Perlu dijelaskan semasa permohonan dikemukakan. |
| TEMPOH PEMPROSESAN | Tempoh pemprosesan oleh APP adalah 7 hari kalender . |
| KELULUSAN | Surat Pengesahan Siap Kerja Pembetungan oleh APP. |

2.2.1 NOTIS PERAKUAN SIAP KERJA PEMBETUNGAN (SWC)



**PERKARA 3.0
LAIN-LAIN PERKARA**

3.1 PRA-KONSULTASI

Sebelum permohonan dikemukakan, pemaju atau orang yang kompeten disyorkan untuk membuat sesi pra-konsultasi bersama agensi perakuan untuk menentukan jenis infrastruktur pembetungan yang bertepatan.

3.2 KEPERLUAN PERLESENAN DAN PERMIT

Kerja-kerja pembinaan hendaklah dilaksanakan oleh kontraktor yang memiliki permit sebagaimana yang telah ditetapkan dalam Kaedah-Kaedah Industri Perkhidmatan Air (Permit) 2007.

Pemilik premis yang mempunyai sistem rawatan kumbahan kecil (SSTS) adalah tertakluk kepada keperluan Lesen Kelas sebagaimana yang dinyatakan di dalam Peraturan-Peraturan Industri Perkhidmatan Air (Pelesenan) 2007.

3.3 KEPERLUAN MENYAHENAP CEMAR

Tangki septik hendaklah dinyahenap cemar dalam tempoh sekurang-kurangnya 2 tahun sekali.

Sistem rawatan kumbahan kecil (SSTS) hendaklah dinyahenap cemar berdasarkan kepada tempoh yang ditetapkan dalam spesifikasi reka bentuk oleh pembekal sistem.

PERKARA 4.0
LAMPIRAN

PERKARA 4.1
BORANG PERMOHONAN

BORANG

PERMOHONAN KELULUSAN KERJA PEMBETUNGAN (SWA)

SURUHANJAYA PERKHIDMATAN AIR NEGARA (SPAN)
Sewerage Works Application (SWA-LR)

PART 1 : GENERAL INFORMATION

| SECTION 1-A : DEVELOPER/OWNER PARTICULARS | |
|--|---|
| Name of Developer/Owner | : |
| Company address | : |
| Telephone No. | : |
| Fax No. | : |
| E-mail address | : |

| SECTION 1-B : PROJECT/DEVELOPMENT INFORMATION | |
|--|---|
| *Title of Project/Development | : |
| Mukim / Section | : |
| District | : |
| State | : |
| Population Equivalent (PE) | : |

* Title of development shall as per DO's approval title

| SECTION 1-C : SEWERAGE WORKS INFORMATION (please tick (✓) where relevant) | | |
|--|---|--------------------------------------|
| Types of infrastructure | : | Connection [to asset no. _____] |
| | : | Septic Tank |
| | : | Small Sewage Treatment System (SSTS) |

PART 2 : DECLARATION

| SECTION 2-A : DECLARATION BY OWNER/DEVELOPER | |
|---|--|
| I hereby declare that the information given are complete, true and accurate and this project/development shall be carried out in strict compliance with the Water Services Industry Act 2006 and its subsidiary legislations. I accept full responsibility to ensure all relevant works shall be completed accordingly. | |
| Signature | Company Stamp (<i>with address and company registration no.</i>) |
| Name of Owner/Authorized Person: | |
| I/C No./Passport No.: | |
| Designation: | |

* Company stamp: only applicable for developer

PART 2 : DECLARATION

| SECTION 2-B : DECLARATION BY COMPETENT PERSON FOR SEWERAGE PLANNING SCOPE | |
|--|---------------|
| I hereby declare and confirm the planning scope for works related to sewerage as in the engineering report/project brief (Ref. no:.....) for development stipulated in Section 1-B are complete, true, accurate and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and requirements of other regulatory agencies. | |
| Signature & Endorsement | Company Stamp |
| Name: | |
| I/C No: | |
| Company Name: | |
| Company Address: | |
| Company Registration No.: | |
| Telephone No.: | |
| Fax No.: | |
| E-mail Address: | |
| Professional Body Registration No.: | |

*Mandatory to fill in, Project Brief reference no. by Competent Person

PART 2 : DECLARATION**SECTION 2-C : DECLARATION BY COMPETENT PERSON FOR SEWERAGE DESIGN
(PROCESS/ HYDRAULIC)**

I hereby confirm the sewerage infrastructure as mentioned in Section 1-C have been designed in accordance to relevant Malaysian Sewerage Industry Guidelines, Standards and/or Technical Specification recognized by the Commission and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and the requirements of other relevant regulatory agencies. I shall take full responsibility for the process and hydraulic design and performance of the same.

| | |
|-------------------------------------|---------------|
| Signature & Endorsement | Company Stamp |
| Name: | |
| I/C No: | |
| Company Name: | |
| Company Address: | |
| Company Registration No.: | |
| Telephone No.: | |
| Fax No.: | |
| E-mail Address: | |
| Professional Body Registration No.: | |

PART 2 : DECLARATION**SECTION 2-D : DECLARATION BY COMPETENT PERSON FOR SEWERAGE DESIGN
(CIVIL AND STRUCTURE)**

I hereby confirm the civil and structure works are designed in accordance to sound engineering practice and relevant Malaysian Sewerage Industry Guidelines, Standards and/or Technical Specification recognized by the Commission and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and the requirements of other relevant regulatory agencies. I shall take full responsibility for the civil and structure design and performance of the same.

Signature & Endorsement

Company Stamp

Name:

I/C No:

Company Name:

Company Address:

Company Registration No.:

Telephone No.:

Fax No.:

E-mail Address:

Professional Body Registration No.:

PART 2 : DECLARATION**SECTION 2-E : DECLARATION BY COMPETENT PERSON FOR SEWERAGE DESIGN
(MECHANICAL)**

I hereby confirm the selection and design of mechanical equipment and works to be installed shall be in accordance to sound engineering practice and relevant Malaysian Sewerage Industry Guidelines, Standards and/or Technical Specification recognized by the Commission and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and the requirements of other relevant regulatory agencies. I shall take full responsibility for the mechanical design and performance of the same.

Signature & Endorsement

Company Stamp

Name:

I/C No:

Company Name:

Company Address:

Company Registration No.:

Telephone No.:

Fax No.:

E-mail Address:

Professional Body Registration No.:

PART 2 : DECLARATION**SECTION 2-F : DECLARATION BY COMPETENT PERSON FOR SEWERAGE DESIGN
(ELECTRICAL)**

I hereby confirm the design of electrical works to be installed shall be in accordance to sound engineering practice and relevant Malaysian Sewerage Industry Guidelines, Standards and/or Technical Specification recognized by the Commission and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and the requirements of other relevant regulatory agencies. I shall take full responsibility for the electrical design and performance of the same.

| | |
|-------------------------------------|---------------|
| Signature & Endorsement | Company Stamp |
| Name: | |
| I/C No: | |
| Company Name: | |
| Company Address: | |
| Company Registration No.: | |
| Telephone No.: | |
| Fax No.: | |
| E-mail Address: | |
| Professional Body Registration No.: | |

BORANG

NOTIS SAMBUNGAN KEPADA SISTEM PEMBETUNGAN

AWAM

NOTIFICATION FOR CONNECTION TO PUBLIC SEWER

(This notice is to be submitted at least 4 days before connection works to public sewer is made)

To : **INDAH WATER KONSORTIUM SDN BHD**
Address :

| | | |
|--|---|--|
| I hereby give notice that the connection works to public sewer will be made on the date, time and location as specified below: | | |
| Date (day/month/year) | : | |
| Time (am/pm) | : | |
| Location | : | |

SECTION A : DECLARATION BY COMPETENT PERSON

I take full responsibility to supervise the works in accordance to sound engineering practices and completed in accordance to approved sewerage planning and approved design in compliance with Water Services Industry (Planning, Design and Construction of Sewerage System and Septic Tank) Rules 2013 and the requirements of other relevant regulatory agencies.

| | |
|-------------------------------------|---------------|
| Signature & Endorsement | Company Stamp |
| Name: of | |
| I/C No: | |
| Company Name: | |
| Company Address: | |
| Company Registration No.: | |
| Telephone No.: | |
| Fax No.: | |
| E-mail Address: | |
| Professional Body Registration No.: | |

SECTION B : DECLARATION BY PERMIT HOLDER

I take full responsibility to supervise the works in accordance to sound engineering practices and completed in accordance to approved sewerage planning and approved design in compliance with Water Services Industry (Planning, Design and Construction of Sewerage System and Septic Tank) Rules 2013 and the requirements of other relevant regulatory agencies.

Signature

Company Stamp

Name:

I/C No:

Company Name:

Company Address:

Type of Permit : B

Permit No.: SPAN/EKS/(PT)/800-

Telephone No.:

Fax No.:

E-mail Address:

BORANG

NOTIS PERAKUAN SIAP KERJA PEMBETUNGAN (SWC)

SURUHANJAYA PERKHIDMATAN AIR NEGARA (SPAN)
Sewerage Works Completion (SWC-LR)

PART 1 : GENERAL INFORMATION

| SECTION 1-A : PROJECT/DEVELOPMENT INFORMATION | | |
|--|---|--|
| Title of Project/Development <i>(To specify phase development, if relevant)</i> | : | |
| Population Equivalent (PE) | : | |

| SECTION 1-B : SEWERAGE WORKS INFORMATION (please tick (✓) where relevant) | | |
|--|---|--------------------------------------|
| Types of infrastructure | : | Connection [to asset no. _____] |
| | : | Septic Tank |
| | : | Small Sewage Treatment System (SSTS) |

PART 2 : DECLARATION

| SECTION 2-A : DECLARATION BY OWNER/DEVELOPER | |
|--|---------------|
| I hereby declare that the relevant sewerage works in this development has been completed in strict compliance with the Water Services Industry Act 2006, its subsidiary legislations and conditions as stipulated and imposed by the Commission. | |
| Signature | Company Stamp |
| Name of Owner/Authorised Person: | |
| I/C No./Passport No.: | |
| Designation: | |
| Company Name: | |
| Company Address: | |
| Company Registration No.: | |
| Telephone No.: | |
| Fax No.: | |

PART 2 : DECLARATION

| SECTION 2-B : DECLARATION BY COMPETENT PERSON | |
|---|---------------|
| I hereby declare and confirm that the sewerage works under my supervision has been constructed and completed in accordance to SWA approval issued on _____ (Ref. no _____) and relevant Malaysian Sewerage Industry Guidelines, Standards and/or Technical Specification recognized by the Commission and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and the requirements of other relevant regulatory agencies. | |
| Signature & Endorsement | Company Stamp |
| Name: | |
| I/C No: | |
| Company Name: | |
| Company Address: | |
| Company Registration No.: | |
| Telephone No.: | |
| Fax No.: | |
| E-mail Address: | |
| Professional Body Registration No.: | |

PART 2 : DECLARATION**SECTION 2-C : DECLARATION BY PERMIT HOLDER**

I hereby declare and confirm that the sewerage works has been constructed and completed in accordance to SWA approval issued on _____ (Ref. no _____) and relevant Malaysian Sewerage Industry Guidelines, Standards and/or Technical Specification recognized by the Commission and in compliance with Water Services Industry Act 2006 and its subsidiary legislations and the requirements of other relevant regulatory agencies.

Signature

Company Stamp

Name:

I/C No:

Company Name:

Company Address:

Type of Permit : B/ C1/ C2/ C3/ C4

Permit No.: SPAN/EKS/(PT)/800-

Telephone No.:

Fax No.:

E-mail Address:

PERKARA 4.2
JADUAL

JADUAL 1

FI

| JENIS SISTEM (Saiz Pembangunan) | PERMOHONAN KELULUSAN KERJA PEMBETUNGAN (SWA) | NOTIS PERAKUAN SIAP KERJA PEMBETUNGAN (SWC) |
|---|---|--|
| TANGKI SEPTIK | | |
| Sehingga 5 PE | 150 | |
| 6 PE - 150 PE | 350 | |
| Melebihi 150 PE | 600 | |
| SAMBUNGAN | | |
| Sehingga 10 PE | 200 | |
| 11 PE - 150 PE | 420 | 600 |
| 151 PE - 500 PE | 770 | 600 |
| 501 PE - 2,000 PE | 1070 | 1200 |
| Melebihi 2,000 PE | 1170 | 1400 |
| SISTEM RAWATAN KUMBAHAN KECIL (SSTS) | | |
| Sehingga 150 PE | 670 | 600 |