PPS IN CONSTRUCTION
Perakuan Pematuhan Standard (PPS)
Certificate of Standard Compliance
for Construction Materials

SAZALI CHE AMAT. 27 JUNE 2019
Act 520 CIDB
- Objective of regulating
- Roles of stakeholders
- What the law says
- Enforcement Implementation

PPS Framework
- Example of Product Certification
- Example of PPS

Standards Conformation
- MS EN 206
- CIS 21

PPS
- Advantages
- Current challenges and issues
- The way forward

Materials and standards regulated
- What are 13 categories of material
- Roles of regulation and accreditation body

RMC enforcement
- Where do we enforce
- Mechanism of RMC enforcement

Online Application
- ccpm.cidb.gov.my
QUALITY AND SAFETY ISSUES

Gombak LRT car park under construction collapses, 3 workers injured
ASHWIN KUMAR / 23 MAY 2019 / 15:28 H.
OBJECTIVE OF REGULATING
CONSTRUCTION MATERIALS

01 Quality
Ensure all regulated construction materials achieve good/high quality before use in the nation’s construction industry.

02 Safety
Ensure construction products secure the safety of users/construction workers.

03 Visibility/traceability
Ensure traceability of construction products to facilitate quality identification for users.

04 Construction image
Elevate the country’s image of the construction industry.
Incorporate in contractual requirements

Consultant
Where applicable align design features and technical specification with standard enforced

Contractor
Ensure use products/materials with PPS

Supplier
Ensure product/materials from registered manufacturers

Manufacturer/Importer
Get product certification from registered Certification Body and apply PPS from CIDB

Roles of Stakeholders in Ensuring Materials Quality

Client
construction materials enforcement implementation under Schedule 4 Act 520 CIDB

- **Imported construction materials enforced**
  - Under Custom Act 1967 (Act 235)
  - Prohibition of import.

- **Local construction materials included**
  - Under CIDB Act 520
  - Act gazetted 15 September 2011

- **Local and imported construction materials enforced**
  - Under CIDB Act 520
  - Act enforced 1 December 2015
  - 18 products/materials

- **Amendment of 4th Schedule Act 520**
  - Under CIDB Act 520
  - Enforcement date of 4th Schedule: 1 December 2016
  - 70 products/materials
The Lembaga shall, in the manner determined by, certify the construction materials used in the construction industry and specified in the FOURTH SCHEDULE in accordance with the standards specified in that Schedule.’

A person shall not deal or undertake to deal, whether directly or indirectly, with the construction materials specified in the FOURTH SCHEDULE unless the construction materials have been certified by the LEMBAGA.

Any person who deals or undertakes to deal with the construction materials specified in the FOURTH SCHEDULE without the certification of the LEMBAGA shall be guilty of an offence and shall, on conviction, be liable to a fine of not less than RM10,000 but not more than RM500,000.

Section 2. (1), ‘deal’ means to handle, use, manufacture, supply, market, transfer, sell or buy, whether wholesale or retail, import or export.
What Does That Implies ???.....

Using the materials during construction not certified by CIDB is considered a legitimate offence under the amended CIDB Act which liable to be compounded or fined.

Compare to the previous scenario.....

Using materials not accordance to the technical specifications is considered breaching the contractual requirements whereby the product will be rejected.
Section 33E (1)

Where any construction material which is not certified in accordance with this Act is dealt with or is undertaken to be dealt with or will be dealt with by any person, the Lembaga may, by notice in the prescribed form, serve on such person requiring him to abstain from commencing or proceeding with, engaging in or being involved in or undertaking to be engaged or involved in, dealing with the non-certified construction material’.

Section 2. (1) – Interpretation:

- ‘construction material’ means any type, size and nature of material, initial, temporary, intermediate or finished, whether manufactured locally or imported used for the construction industry.

- ‘construction industry’ means the industry related to construction works, including design, manufacturing, technology, material and workmanship and services for purposes of construction.
### SCHEDULE 4

**ACT 520 CIDB**

**STATED TYPES OF MATERIALS AND STANDARD ENFORCED**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Cast iron product</td>
<td>BS EN 114</td>
</tr>
<tr>
<td>(2)</td>
<td>Non-malleable cast iron - machine covers</td>
<td>BS EN 114</td>
</tr>
<tr>
<td>(3)</td>
<td>Tube, pipe and hollow profiles</td>
<td>MS 1974</td>
</tr>
<tr>
<td>(4)</td>
<td></td>
<td>ISO 10594</td>
</tr>
</tbody>
</table>

#### 12. Aluminum

- (a) Aluminum plate, sheet and strip of a thickness exceeding 0.2 mm: whether or not alloyed
- (b) Aluminum foil of a thickness not exceeding 0.2 mm, not hardened: rolled: hot or cold

- (c) Aluminum plate, sheet and strips (MS 2040)
- (d) Aluminum structures (MS 032)
- (e) Aluminum composite panel for exterior and interior wall (MS 2571)
- (f) Aluminum and aluminium alloy - end used sheet and strips for general applications (MS 2346)
- (g) Aluminum and aluminium alloy for extruded shape (MS 2299)

#### 13. Ready mix concrete

- MS C20: Product 1 to 3

*Note: The latest edition of the standard specifications published by the relevant accreditation body shall apply.*

**Made 30 November 2016**

**Dato' Sri Haji Fadillah bin Haji Yusof**

Minister of Works
### Construction Materials under Schedule 4, Act 520 CIDB

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1. Sanitary wares</td>
<td>1. Ready Mixed Concrete</td>
</tr>
<tr>
<td>2. Glazed and unglazed ceramic tiles</td>
<td>2. Insulation materials</td>
</tr>
<tr>
<td>3. Ceramic Pipes and pipes fittings</td>
<td>3. Coated glass</td>
</tr>
<tr>
<td>5. Prefabricated timber roof truss</td>
<td>5. Fibre Cement Flat Sheet Not Containing Asbestos</td>
</tr>
<tr>
<td>6. Precast concrete pile for foundation</td>
<td>6. Radiant Barrier (Thermal Insulation Foil)</td>
</tr>
<tr>
<td>7. Float glass</td>
<td>7. Aluminium</td>
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<tr>
<td>8. Scaffolding</td>
<td></td>
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<tr>
<td>9. Wire rod, bars and wires</td>
<td></td>
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<tr>
<td>10. Radiant barrier (thermal insulation foil)</td>
<td></td>
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<tr>
<td>11. Iron steel products</td>
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<tr>
<td>12. Aluminium</td>
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<tr>
<td>13. Ready mixed concrete</td>
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</tr>
</tbody>
</table>

- *Construction Materials under Schedule 4, Act 520 CIDB*
  
  1. Sanitary ware (ceramic)
  2. Unglazed and glazed ceramic tiles
  3. Ceramic pipes and pipes fittings
  4. Cement
  5. Prefabricated timber roof truss system
  6. Precast concrete pile for foundation
  7. Insulation materials
  8. Glass
  9. Fibre cement flat sheet hot containing asbestos
  10. Radiant barrier (thermal insulation foil)
  11. Iron steel products
  12. Aluminium
  13. Ready mixed concrete
SUMMARY OF AMENDMENT

4th SCHEDULE (2011)
- 8 Product Categories
  - 18 types

4th SCHEDULE (2016)
- 13 Product Categories
  - 70 types

Note:
22 March 2016: Y.Bhg Minister of Works approved additional Amendment of 4th Schedule
01 Dec 2016: Gazetted date of 4th Schedule
01 Dec 2016: Enforcement date of 4th Schedule
**PPS FRAMEWORK**

**CERTIFICATE OF STANDARD COMPLIANCE (PPS) FOR CONSTRUCTION MATERIALS**

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**PPS Validity Period**

The validity period of PPS is one (1) year.

**Obtaining PC**

CIDB is not involved in taking samples and perform material testing. CIDB only accept test reports from accredited Conformity Assessment Bodies (CAB).

**Where to register**

Representatives of producers/manufacturers must make all PPS applications online at [ccpm.cidb.gov.my](http://ccpm.cidb.gov.my).

**Note:**

CIDB being the regulatory body will NOT be involved in taking samples and perform material testing. CIDB only accept test report/PC from accredited CABs.

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**PPS procedure**

Using the CAB’s PC then the manufacturers will apply Certificate of Standard compliance (PPS) CIDB.
# PRODUCT CERTIFICATE OF CONFORMITY

This certificate hereby certifies that the product as detailed in this certificate has satisfactorily complied with the requirements of the appropriate Standard(s) and the Certification Scheme Requirement of CREAM Certification Services (CCS).

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ready-Mixed Concrete</th>
</tr>
</thead>
</table>

**Product Descriptions**

- **Producer's Concrete Code**: 21N, 32N
- **Type of Concrete**: Normal Concrete
- **Strength Class**: C20/25, C25/30

**Certification Number**

- **CCS PC 1001-17011**
- **Date of Initial Certification**: 31 July 2017
- **Date of Renewal**: 7 November 2018
- **Date of Expiry**: 31 July 2019

This certificate is issued on the basis of an assessment against the standard(s) for conformity which includes the manufacturer's production control system, production facilities, product conformity to standard, and assessment of the supporting quality management system. This Certificate remains the property of CCS and shall be returned upon request.

The user of this certificate is subject to the terms and conditions of the Certification Agreement.

**Certificate is approved and issued by**

IR. DR. ZUHAIR ABD. HAMED, FAcS
Chief Executive Officer
CONSTRUCTION RESEARCH INSTITUTE OF MALAYSIA (CREAM) Sdn Bhd

**Source of water**

- SYAIRAT BILASAN AIR SELANGOR Sdn Bhd

**Source of coarse aggregate**

- Latarage Aggregate Sdn Bhd (Hulu Langat Quarry)

**Source of fine aggregate**

- Sungai Ramalut Angkut Sdn Bhd (Batang Beruntung)

**Source of admixture**

- Ailin (Malaysia) Sdn Bhd

**Source of cement**

- Associated Pan Malaysia Cement Sdn Bhd

[PPP Reg. No: 11702(05), 0162]
PPS PROCEDURE

- With Product Certification

PRODUCT CERTIFICATION

PPS (Tempatan)
# PERAKUAN PEMATUHAN STANDARD (BAHAN BINAAN)

Despn: Haji Ahmad Bakrie

BIONOL (MI) SDN BHD (763486-M)

Gea, V rivin Suikug, Jalan Young Art House

Lot 179, Jalan Duta, 53200 Shah Alam

PT. ABADI KEKUATAN INDUSTRY

KOTA TAMBANG BARU

TARAKAN 85797, INDONESIA

Keterangan Produk: Response/Noticed

Dibuat: INDIANA

No. Sijil Produk/Noticed Diterbitkan: PUSATGAS

Tanggal Dibuat Produk Perakuan Standard: 21 Feb 2019

Tanda perakuan Bahan Binaan (Badan Langgar atau cetak butir besar keramik):

<table>
<thead>
<tr>
<th>No. Sijil Produk</th>
<th>Material Type</th>
<th>Cetakan</th>
<th>Keterangan Produk</th>
<th>Keterangan Tanda Perakuan</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>7</td>
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</tr>
</tbody>
</table>

Tanggal Terakhir Perakuan Standard: 21 Feb 2019

Sijil perakuan Bahan Binaan (Badan Langgar atau cetak butir besar keramik):

[Signature]

Date: 27 Feb 2019
WHERE WE ENFORCE

01 PLANTS/MILLS

02 MARKETING OUTLET / HARDWARE / STORAGE

03 CONSTRUCTION SITES

Must ensure valid PPS at all time
MECHANISM OF RMC ENFORCEMENT

1. RMC PRODUCTION
   Materials, process, plant

2. RMC DISTRIBUTION
   Distributor/dealer/hardware shops

3. RMC USAGE
   Construction Site: Clients, Consultants, contractors, etc

COMPLIED
STANDARD ENFORCED – MS 523, MS EN 206, CIS 21

OBTAINED
PRODUCT CERTIFICATION BY ACCREDITED CONFORMITY ASSESSMENT BODIES (CAB) + CERTIFICATE OF STANDARD COMPLIANCE (PPS) FROM CIDB
The certification is based on **MS EN 206:2016** (which replace MS 523:Part 1:2005) and **CIS 21:2016** certification criteria.

It is applicable to all plants supplying ready-mixed concrete for structural use in Malaysia, including precast structural elements manufactured locally.

### Latest Standards

1. **MS EN 206 : 2016**  
   (replacing MS 523 : Part 1 : 2005)

2. **MS 523 – 2 : 2017**

3. **MS 523 – 3 : 2017**
MS EN 206:2016, CONCRETE — SPECIFICATION, PERFORMANCE, PRODUCTION AND CONFORMITY

• MS EN 206: 2016, which replaced MS 523: Part 1: 2005, is a full adoption of EN 206: 2013. It provides a platform to further upgrade and enhance the quality of ready-mixed concrete to a higher level through **production control and conformity approach** by providing a mechanism for the product to be independently certified by a recognised certification body.

• MS EN 206 places **greater responsibility to the producer**, who shall be responsible for the conformity of ready-mixed concrete according to the concrete specification.
• MS EN 206 is supported by two complimentary Malaysian Standards;
  1) MS 523-2 - Method of specifying and guidance for the specifier, and
  2) MS 523-3 - Specification for constituent materials and concrete.

• MS EN 206 covers both site-mixed concrete and ready-mixed concrete. The quality of site-mixed concrete is very much dependent on the contractor and the project supervisor while ready-mixed concrete, on the producer.
Construction Industry Standard 21 (hereinafter referred as CIS 21) is a standard focused on ready-mixed concrete and serves as a basis for ready-mixed concrete producers in ensuring their ready-mixed concrete plant, production and production control, transportation and delivery are independently certified by a certification body recognised by CIDB.
# CIS 21 : 2018

SECTION 1: GENERAL

SECTION 2: GENERAL REQUIREMENT

SECTION 3: PRODUCTION

SECTION 4: INITIAL AND IDENTITY TESTING

SECTION 5: CONFORMITY CONTROL AND CONFORMITY CRITERIA

SECTION 6: TRANSPORTATION AND DELIVERY OF CONCRETE

SECTION 7: CERTIFICATION

SECTION 8: IDENTIFICATION OF RMC PLANT AND SIGNAGE

SECTION 9: QUALITY MANAGEMENT SYSTEM
# IDENTIFICATION OF RMC PLANT AND SIGNAGE

<table>
<thead>
<tr>
<th>#</th>
<th>Name of Company</th>
<th>Plant Serial Number</th>
<th>Type</th>
<th>State</th>
<th>Status</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>BANGSAR PLANT (PLANT IDENTIFICATION: SRSB-14-W-1)</td>
<td>1180827WP0301</td>
<td>Active</td>
<td>Wet</td>
<td>26/Aug/2019</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SETIA ALAM PLANT 1 (PLANT IDENTIFICATION: SRSB-010-D-1)</td>
<td>1181022SL0316</td>
<td>Active</td>
<td>Wet</td>
<td>21/Oct/2019</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>SETIA ALAM PLANT 2 (PLANT IDENTIFICATION: SRSB-010-D-2)</td>
<td>1181022SL0317</td>
<td>Active</td>
<td>Wet</td>
<td>21/Oct/2019</td>
<td></td>
</tr>
</tbody>
</table>

- S: Number corresponding to the state
- X: W – Wet, D – Dry
- @: Name of company
- @-S-X-#: Plant serial number
MARKING REQUIREMENT

• At delivery, the producer shall provide the user with a delivery ticket (however named) for each load of concrete on which is printed, stamped or written with information, as in Clause 7.3 (1), MS EN 206:2016 and additional information, as applicable, as in 7.3 (2) and 7.3 (3) of MS EN 206:2016.

• The delivery ticket shall contain the plant identification as indicated in Clause 8.1 and the PPS no. in Clause 8.2 CIS 21:2016.
SIGNAGE

- The ready-mixed concrete plant shall have proper signage placed at the site. It shall contain at least the following information:
  i. name and address of plant;
  ii. plant identity;
  iii. CIDB PPS number; and
  iv. name and certificate number of the certification body.
ON-LINE APPLICATION PROCESS FOR CERTIFICATE OF STANDARD COMPLIANCE

Start

Apply for Access

PPS Application

Document Verification

Physical Verification

Verification

Approval

PPS Issuance

End

Log in to: ccpm.cidb.gov.my

To get username and password

Enter products details information and payment:
New/new with additional products – RM 1,500.00
Renew/Additional products – RM 750.00

Document verification:
• Company registration (Form9, Form 24 etc)
• Product Certificate

Products Physical verification (accordance to standard requirements)

Approval in 10 working days
Certification of Construction Product & Material (CCPM) website is the platform for online registration and listing of the approved construction products and materials as prescribed in Fourth Schedule of CIDB Act 520 (Amendment) 2011.

Manufacturer
Registration of construction products and materials

Public/Stakeholders
Search for certified construction products and materials

ANNOUNCEMENT

Silau hubungi CIDB Careline pada tahn 1-300-88-2412 untuk sebarang pertanyaan.

PEMAKLUMAN LARANGAN BERURUSAN DENGAN BAHAN BINAAN YANG TIDAK DIPERAKUAKAN

Nobs ni berhubung kepada kesokalan kepada sesiapa yang berurusan dengan bahan binaan agar memperoleh Peraturan Pematuhan Standard (PPS) yang disahkan oleh Lembaga bagi bahan binaan yang disesuaikan di dalam Jadual Keempat Kitab 520 (Peraturan 2011). Larangan ini adalah berlaku karter instal 1 Disember 2012.
Log in to: ccpm.cidb.gov.my

Current statistic:
Batching plants: 28
Companies: 17
ASSURANCE

BRANDING

QUALITY

ADVANTAGES OF

COMPLIANCE

STANDARDISATION

SAFETY

PPS
CURRENT CHALLENGES & ISSUES

1. Demand and Supply of Construction Material
2. Readiness of the industry
3. Enforcement approach
4. Liberalisation of trade/industry
THE WAY FORWARD

1. Safety & Quality first
   - New Construction Culture

2. Self regulatory
   - Roles and Responsibility
   - Good Regulatory Practices

3. Raised Standard of Construction Material
Our Support
Standards and Construction
Materials Division CIDB

More information:
www.cidb.gov.my

Contact Us By Email
qpass@cidb.gov.my

Our Call Centre Is Available
1300 88 CIDB (2432)
03-4047 7000

Meet us at
Level 34, No 45, Menara Dato’ Onn, Pusat Dagangan Dunia Putra (PWTC)
Jalan Tun Ismail, 50480 Kuala Lumpur