



Rujukan Kami: LPIPM:KP/BBA/05/1/8 (8)

Tarikh: 2 Ogos 2018

SENARAI EDARAN

YBhg. Dato' / Tuan / Puan,

MESYUARAT BIL.

4

NAMA JAWATANKUASA

CITP INITIATIVE WORKING GROUP ON NATIONAL

SPECIFICATION FOR CONSTRUCTION

KOD JAWATANKUASA

CITP-IWG15 / I1a-NSC

Dengan segala hormatnya perkara di atas adalah dirujuk.

2. Untuk makluman, mesyuarat jawatankuasa CITP-IWG15/I1a-NSC bil. 4 telah dijadualkan seperti berikut:

Tarikh

14 Ogos 2018 (Selasa)

Masa

3.00 - 5.00 petang

Tempat

Function Room - Bronx IV

Berjaya Times Square Hotel Kuala Lumpur

1, Jalan Imbi, 55100 Kuala Lumpur

Pengerusi

Ir. Kamaluddin bin Hj. Abdul Rashid

Timbalan Ketua Pengarah Kerja Raya (Sektor Pakar)

Agenda

Rujuk Lampiran 1

- 3. Sukacita YBhg. Dato' / Tuan / Puan adalah dijemput hadir dan dipohon untuk mengesahkan kehadiran melalui borang seperti di **Lampiran 2** selewat-lewatnya pada 9 Ogos 2018. Kehadiran YBhg. Dato' / Tuan / Puan dalam mesyuarat kali ini amatlah dihargai.
- 4. Bersama-sama ini juga dilampirkan Minit Mesyuarat IWG15 Bil. 3 bertarikh 8 Ogos 2017 sebagai rujukan. Dokumen-dokumen mesyuarat lain sekiranya ada akan diedarkan secara berasingan. Sebarang pertanyaan lanjut, pihak YBhg. Dato' / Tuan / Puan boleh menghubungi pegawai-pegawai berikut:

ii)

i) Pn. Siti Aieshah Ghazali

T: 03-4047 7379 / 012-410 1146

E: aieshah@cidb.gov.my

Sr Nazir Muhamad Nor

T: 03-4047 7343 / 011-1231 5651

E: nazir@cidb.gov.my

Sekian, terima kasih.

"BINA SEMPURNA"

(Sr SARIAH ABD. KARIB)

Pengurus Besar Kanan

Sektor Dasar & Korporat

Lembaga Pembangunan Industri Pembinaan Malaysia

b.p. Ketua Eksekutif CIDB

LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA

IBU PEJABAT

Tingkat 10, Menara Dato' Onn, Pusat Dagangan Dunia Putra, No.45, Jalan Tun Ismail, 50480 Kuala Lumpur, MALAYSIA t • 6 03-4047 7000 f • 6 03-4047 7070 www.cidb.gov.my









D ISO 9001:2008 CERTIFIED TO ISO 90 D : AR 1722 CERT, NO. : AR 1

RTIFIED TO ISO 9001:2008 CERTIFIE CERT, NO. : AR 1722 CI

CERTIFIED TO MS 172 CERT. NO. : SR 03

S.k 1. Ir. Kamaluddin bin Hj. Abdul Rashid (Chairman)

Timbalan Ketua Pengarah Kerja Raya (Sektor Pakar)

Pejabat Timbalan Ketua Pengarah Kerja Raya (Sektor Pakar)

Ibu Pejabat JKR Malaysia

Tingkat 33, Blok G, Menara Kerja Raya

No. 6, Jalan Sultan Salahuddin

50480 Kuala Lumpur Tel : 03-2618 8430 H/P : 013-249 4065 Faks : 03-2618 8799

Emel: arkamal.jkr@1govuc.gov.my

(Tuan dijemput hadir untuk mempengerusikan mesyuarat)

2. Sr Noridah Shaffii

Pengarah

Programme Management Office

CIDB Malaysia

Tingkat 24, Menara Dato' Onn, PWTC

50480 Kuala Lumpur

Tel : 03-4047 7216 H/P : 019-288 4659 Faks : 03-4047 7140 Emel : pmo@cidb.gov.my

(Puan dijemput hadir)

3. Pn. Nazeriah Md Kassim

Pengurus Besar

Bahagian Pengurusan Maklumat

CIDB Malaysia

Tingkat 33, Menara Dato' Onn, PWTC

50480 Kuala Lumpur Tel : 03-4047 7151 Faks : 03-4047 7120

Emel: nazeriah@cidb.gov.my

(Puan dijemput hadir)

MESYUARAT BIL. 4 CITP INITIATIVE WORKING GROUP ON NATIONAL SPECIFICATION FOR CONSTRUCTION (CITP-IWG15/I1a-NSC)

Tarikh

14 Ogos 2018 (Selasa)

Masa

3.00 - 5.00 petang

Tempat

Function Room - Bronx IV

Beriaya Times Square Hotel Kuala Lumpur

1, Jalan Imbi, 55100 Kuala Lumpur

Pengerusi

Ir. Kamaluddin bin Hj. Abdul Rashid

Timbalan Ketua Pengarah Kerja Raya (Sektor Pakar)

AGENDA

- 1. Kata-kata Aluan Pengerusi
- 2. Pengesahan Minit Mesyuarat IWG15 Bil. 3 bertarikh 8 Ogos 2017
- 3. Maklumbalas Perkara Berbangkit
- 4. Pembentangan Prestasi Initiative I1a
- 5. Pembentangan Cadangan Pembangunan NSC oleh Pertubuhan Arkitek Malaysia
- 6. Takwim Mesyuarat
- 7. Hal-hal Lain

BORANG PENGESAHAN KEHADIRAN MESYUARAT

MESYUARA NAMA JAWA	· · · · · ·	:	4 CITP INITIATIVE WORKING GROUP ON NATIONAL
KOD JAWAT	ANKUASA	:	SPECIFICATION FOR CONSTRUCTION CITP-IWG15 / I1a-NSC
	Tarikh Masa Tempat	:	14 Ogos 2018 (Selasa) 3.00 – 5.00 petang Function Room – Bronx IV Berjaya Times Square Hotel Kuala Lumpur 1, Jalan Imbi, 55100 Kuala Lumpur
	Pengerusi	:	Ir. Kamaluddin bin Hj. Abdul Rashid Timbalan Ketua Pengarah Kerja Raya (Sektor Pakar)
Nama			
Nama			
Organisasi	:		
Jawatan	:		
No. Telefon	:		
No. Faksimili	:	•••••	
Emel	:	• • • • • • • • • • • • • • • • • • • •	
			AKAN HADIR
			TIDAK HADIR

Sila kembalikan borang pengesahan kehadiran ini selewat-lewatnya pada 9 Ogos 2018, 12.00 tengahari melalui faks ke 03-4047 7330 (u.p : Pn. Siti Aieshah Ghazali) atau emel ke (aieshah@cidb.gov.my)

LIST OF APPOINTED COMMITTEE MEMBERS

Committee Name : CITP Initiative Working Group On National

Specification For Construction

Committee Code : CITP-IWG15 / I1a-NSC

1. Dato' Sr Srikandan Kanagainthiram (Deputy Chairman)

Managing Director

KPK Quantity Surveyors Sdn. Bhd.

Level 6, Wisma Guocoland

Damansara City, No. 6

Jalan Damanlela, Bukit Damansara

50490 Kuala Lumpur Tel : 03-2770 1888 H/P : 012-333 9332

Faks : 03-2770 1838

Emel: srikandan@kpkgs.com

2. Ar. Zairul Azidin bin Badri

Timbalan Ketua Pengarah Kerja Raya (Sektor Bangunan)

Pejabat Timbalan Ketua Pengarah Kerja Raya (Sektor Bangunan)

Ibu Pejabat JKR Malaysia

Tingkat 33, Blok G, Menara Kerja Raya

No. 6, Jalan Sultan Salahuddin

50480 Kuala Lumpur

Tel: 03-2618 8432 H/P: 019-334 7900

Faks : 03-2618 8775

Emel: zairul.jkr@1govuc.gov.my

3. Ir. Muhammad Azman bin Jamrus

Pengarah Kanan Cawangan Kejuruteraan Awam & Struktur

Jabatan Kerja Raya Malaysia

Ibu Pejabat JKR Malaysia

Tingkat 10, Menara Kerja Raya, Blok G

No. 6, Jalan Sultan Salahuddin

50480 Kuala Lumpur

Tel : 03-2618 9016 H/P : 012-320 0301 Faks : 03-2618 9155

Emel: azman@jkr.gov.my

4. Ir. Razdwan bin Kasim

Pengarah Khidmat Pakar Cawangan Kejuruteraan Mekanikal

Jabatan Kerja Raya Malaysia

Tingkat 26. Menara Keria Rava

Ibu Pejabat JKR Malaysia

Jalan Sultan Salahuddin

50480 Kuala Lumpur Tel : 03-2618 9427 H/P : 019-203 9811

Faks : 03-2618 9510

Emel: razdwan.jkr@1govuc.gov.my

5. Dato' Haji Abu Bakar bin Johar

Ketua Pengarah

Jabatan Kerajaan Tempatan

Kementerian Kesejahteraan Bandar, Perumahan dan Kerajaan Tempatan (KPKT)

Aras 29. No. 51. Persiaran Perdana

Presint 4

62100 Putrajaya

Tel: 03-8891 3001 H/P : 013-204 6484 Faks : 03-8891 3091

Emel: abubakar@kpkt.gov.my

6. En. Mohd Sor bin Othman

Timbalan Pengarah (Pembangunan) Bahagian Pengurusan Zon Pantai

Jabatan Pengairan dan Saliran Malaysia

Jalan Sultan Salahuddin 50626 Kuala Lumpur Tel : 03-2615 1605

H/P : 019-233 3720 Faks : 03-2697 3201

Emel: msor@water.gov.my

7. En. Esa bin Ahmad

Ketua Pengarah

Jabatan Lanskap Negara

Tingkat 7, Plaza Permata-IGB Jalan Kampar Off Jalan Tun Razak

50400 Kuala Lumpur

Tel : 03-4047 7000/4045 2841

H/P : 019-248 5827 Faks : 03-4045 7194

Emel: esa.kpkt@1govuc.gov.my

8. Pn. Fakheezah binti Borhan

4

Penolong Pengarah Kanan Jabatan Standard Malaysia Century Square, Level 1 & 2 Block 2300, Jalan Usahawan 63000 Cyberjaya, Selangor

Tel : 03-8319 1473 H/P : 017-604 7954 Faks : 03-8319 1511

Emel: fakheezah@jsm.gov.my

9. En. Abdul Aziz bin Long

Pengurus Besar Kanan Pusat Pengurusan & Penyelidikan Standard SIRIM Berhad

1, Persiaran Dato' Menteri Section 2, P.O. Box 7035 40700 Shah Alam, Selangor

Tel : 03-5544 6302 H/P : 012-235 6060 Faks : 03-5510 8095 Emel : <u>azizl@sirim.my</u>

10. Ir. Wong See Foong

Past President

Association of Consulting Engineers Malaysia (ACEM)

No. 63-2 & 65-2, Medan Setia 1

Damansara Heights 50490 Kuala Lumpur Tel : 03-2095 0031 Faks : 03-2095 3499

Emel: sec@acem.com.my/wongfoong@gmail.com

11. Dato' Soam Heng Choon

Deputy President

Real Estate & Housing Developers' Association Malaysia (REHDA)

Wisma REHDA

No. 2C, Jalan SS5D/6, Kelana Jaya 47301 Petaling Jaya, Selangor

Tel: 03-7803 2978 Faks: 03-7803 5285

Emel : secretariat@rehda.com

12. Mr. Ong Ka Thiam

Deputy Secretary General II

Master Builders Association Malaysia (MBAM)

No. 2-1, Jalan 2/109E Desa Business Park 58100 Kuala Lumpur

Tel : 03-7984 8636 H/P : 019-264 0938 Faks : 03-7982 6811

Emel: ka-thiam.ong@wct.my

13. lr. Hj. Shahul Ikram bin Adnan

Project Manager

JSP Emenea JV Sdn. Bhd.

No. 16-1&2, Jalan Nautika BU 20/B Seksyen U20, Pusat Komersil TSB

40160 Sungai Buloh, Selangor

: 03-6150 2022 Tel

H/P : 013-364 2417 Faks : 03-6150 2205

Emel: ir shahul@yahoo.com

14. Ir. Looi Hip Peu

Director

Mektricon Sdn. Bhd.

No. 23, Jalan SS21/34

Damansara Utama

47400 Petaling Jaya, Selangor

: 03-7710 4858 Tel H/P : 017-613 2169

Faks : 03-7710 3858

Emel: hippeulooi@gmail.com



MINIT MESYUARAT BIL. 3 CITP IWG ON NATIONAL SPECIFICATION FOR CONSTRUCTION CITP-IWG15/I1a-NSC

Tarikh : 8 Ogos 2017 (Selasa)

Masa : 11.00 pagi – 12.00 tengah hari

Tempat : Bilik Mesyuarat Kempas

Tingkat 32, CIDB Malaysia Menara Dato' Onn, PWTC No. 45, Jalan Tun Ismail

50480 Kuala Lumpur

Pengerusi : En Kamaluddin Hj. Abdul Rashid

Timbalan Ketua Pengarah, Sektor Bangunan

Jabatan Kerja Raya (JKR)

KEHADIRAN

. En Kamaluddin Hj. Abdul Rashid - JKR

Dato' Sr Srikandan Kanagainthiram
 En, Zamri Salleh
 Royal Institution of Surveyors Malaysia (RISM)
 Kementerian Kesejahteraan Bandar, Perumahan dan

Kerajaan Tempatan (KPKT)

4. Pn Fakheezah Borhn
 5. Ar. Zamri Ismail
 Jabatan Standard Malaysia (JSM)
 Pertubuhan Arkitek Malaysia (PAM)

6. Ir. Hj. Shahul Ikram Adnan - Institution of Engineer Malaysia (IEM)

7. Dato' Soam Hong Choon - Real Estate & Housing Developers' Association

Malaysia (REHDA)

8. Mr Ong Ka Thiam - Master Builders Association Malaysia (MBAM)
9. Sr Sariah Abd, Karib - Construction Industry Development Board (CIDB)

9. Sr Sariah Abd. Karib - Construction Industry Development Board (CIDB)
10. Sr Mohd Zaid Zakaria - CIDB
11. Sr Nazir Muhamad Nor - CIDB

11.Sr Nazir Muhamad Nor- CIDB12.Sr Noridah Shaffii- CIDB

TIDAK HADIR

1. Ar. Zairul Azidin Badri - JKR (Caw. Arkitek)

2. Ir. Razdwan Kasim - JKR (Caw. Kejuruteraan Mekanikal)

3. Ir. Muhammad Azman Jamrus - JK

4. En. Mohd Sor Othman - Jabatan Pengairan dan Saliran Malaysia (JPS)

5. En Esa Ahmad - Jabatan Landskap Negara

6. En Abdul Aziz Long - SIRIM Berhad

7. Ir. Looi Hip Peu - The Electrical and Electronics Association of Malaysia (TEEAM)
8. Ir. Wong See Fong - Association of Consulting Engineers Malaysia (ACEM)

TURUT HADIR

Ir. Chen Thiam Leong
 Pn. Suhana Mohd Said
 CIDB
 En. Syed Muhammad Nazir Syed Othman

URUSETIA

Pn. Nursazwaziha Binti Salehudin - CIDB
 Pn. Nurul Izzati Abdul Wahab - CIDB



1. UCAPAN ALUAN TUAN PENGERUSI

1.1. Tuan Pengerusi mengucapkan selamat datang dan terima kasih kepada semua ahli jawatankuasa yang hadir.

2. KEMASKINI SENARAI KEAHLIAN IWG 15

- 2.1. Penaja inisiatif, Sr Sariah Abd Karib mewakili CIDB mengucapkan tahniah kepada Tuan Pengerusi di atas kenaikan pangkat daripada ahli kepada pengerusi jawatankuasa dan juga sebagai Timbalan Ketua Pengarah JKR.
- 2.2. Mesyuarat mengambil maklum, Sr Mohd Zaid Zakaria telah menggantikan Puan Zainora sebagai pemilik inisiatif.

3. PENGESAHAN MINIT MESYUARAT IWG 15 BIL. 2

3.1. Minit mesyuarat tidak disertakan bersama senarai kehadiran. OIC diminta untuk melampirkan senarai kehadiran dalam minit mesyuarat akan datang.

Tindakan: Pemilik Inisiatif

3.2. Mesyuarat telah bersetuju Minit Mesyuarat IWG 15 Bil. 2 disahkan tanpa pindaan.

4. MAKLUMBALAS PERKARA BERBANGKIT DARI MESYUARAT IWG 15 BIL. 2

- 4.1. Mesyuarat telah mengambil maklum semua perkara berbangkit telah diambil tindakan sepanjang tempoh daripada mesyuarat terakhir yang diadakan pada 23 Jun 2016 dan kebanyakan perkara akan dibincang dalam Agenda 5 (Pengesahan KPI dan Sasaran Tahunan yang Dikemaskini di Bawah Inisiatif I1a) dan Agenda 6 (Pembentangan Term of Reference (TOR)).
- 4.2. Senarai maklumbalas perkara berbangkit dari mesyuarat IWG 15 Bil 2 disertakan di Lampiran A.
- 4.3. Mesyuarat dimaklumkan bahawa CIDB telah melantik perunding untuk mengkaji kertas cadangan pembangunan National Specification for Construction yang telah di terima pada November 2016 yang dikemukakan oleh perunding KPK QS dan NBS UK. Perunding telah mencadangkan pembangunan National Specification for Construction (NSC) dengan kemampuan Building Information Modeling (BIM) sekaligus telah mengubah halatuju inisiatif ini.



4.4. Penaja inisiatif, Sr Sariah Abd Karib menjelaskan satu Jawatankuasa Khas juga telah ditubuhkan bagi mengkaji kebolehlaksanaan pembangunan NSC dengan keupayaan BIM. Jawatankuasa tersebut dipengerusikan oleh Penaja Inisiatif I1a dan ahlinya yang terdiri daripada, wakil E-Construct, 2 ahli IWG 11 (BIM), 2 ahli IWG 15 (NSC) dengan 1 profesional yang berkepakaran dalam BIM. Sebanyak 3 mesyuarat telah diadakan dan mesyuarat terakhir pada 9 Jun 2017.

5. PEMBENTANGAN PENCAPAIAN DAN KEMAJUAN INISIATIF 11A Q2/2017

- 5.1. Hasil pencapaian inisiatif I1a bagi suku kedua tahun 2017 boleh dirujuk di Lampiran B
- 5.2. Pn Sariah memaklumkan bahawa satu lawatan teknikal ke National Building Specification (NBS), Newcastle, UK telah dijalankan pada April 2017 untuk mengenalpasti pembangunan NBS sedia ada di negara berkenaan. Hasil daripada lawatan, ahli TC-NSC dan juga pihak pengurusan tertinggi CIDB bersetuju bahawa NBS specification tools merupakan salah satu pembangunan yang bertransformasi kepada industri pembinaan di Malaysia.
- 5.3. Setelah perbincangan daripada lawatan ringkas oleh Ketua Eksekutif NBS, Richard Waterhouse pada 27 Julai 2017 diadakan, hasil daripada perbincangan tersebut mendapati terdapat 3 bentuk aturan komersial boleh dicadangkan oleh pihak NBS. Secara dasarnya, bentuk aturan komersial tersebut adalah seperti berikut:
 - i. Model Pelaksanaan Secara Usahasama Penubuhan syarikat usahasama yang melibatkan E-construct dan NBS. CIDB Malaysia akan membiayai kos pembangunan bagi sistem NSC. Syarikat usahasama ini akan memperolehi hasil daripada jualan lesen kepada pengguna sistem NSC dan peratusan keuntungan akan diagihkan kepada CIDB Malaysia.
 - ii. Model Pelaksanaan Secara Pembayaran Royalti CIDB Malaysia akan menanggung kos pembangunan sistem NSC. CIDB juga berperanan dalam membuat kutipan bayaran bagi setiap yuran langganan yang dikenakan kepada pengguna sistem ini. Pembayaran royalti akan diberikan kepada NBS.
 - iii. Model Pelaksanaan Secara Subsidi CIDB Malaysia akan membeli sistem NSC tersebut dan yuran lesen akan dibayar kepada NBS secara tahunan.
- 5.4. Walaubagaimanapun, maklumat terperinci mengenai ketiga-tiga bentuk model komersial akan diperolehi secara rasmi daripada NBS tertakluk kepada Term of Reference yang dimuktamadkan dalam mesyuarat ini.
- 5.5. Dato' Srikandan menjelaskan elemen *exit clause* perlu diambil kira bagi setiap keputusan yang diambil dalam apa-apa bentuk aturan komersial. Keperluan *exit clause* penting untuk memastikan CIDB mendapat pemilikan penuh terhadap sistem ini tanpa bergantung kepada NBS selepas tamat tempoh penyelenggaraan.



- 5.6. Selain itu, mesyuarat bersetuju bahawa pemilikan kepada sistem ini hendaklah termasuk perkara berikut:
 - a) IT platform/system
 - b) Specification content Malaysian
 - c) Exit clause
 - d) Collaboration with the industries
 - e) Business model
 - f) Advertisement
- 5.7. Mesyuarat ambil maklum bahawa IWG 11 (BIM) akan mengetuai pembangunan sistem berintergrasi dengan BIM. Manakala, IWG 15 (NSC) akan mengetuai pembangunan spesifikasi nasional.
- 5.8. Bahagian Pengurusan CITP mencadangkan penambahan ahli daripada wakil E-Construct ke dalam jawatankuasa ini dan dipersetujui oleh ahli mesyuarat.

Tindakan: Bahagian Pengurusan CITP

5.9. Dato' Soam Hong Choon menjelaskan bahawa cadangan perniagaan yang bakal diterima daripada NBS perlu dinyatakan jumlah yuran pendaftaran bagi langganan terhadap sistem. Hasil daripada maklumat ini dapat menentukan nilai sistem yang bakal dibangunkan ini dan dapat menarik minat pengguna. Selain itu, Dato' Soam menekankan sekali lagi mengenai penglibatan industri di dalam proses pembangunan sistem ini supaya pihak industri mempunyai lebih banyak keterbukaan di dalam penggunaan NSC di masa akan datang.

6. PENGESAHAN KPI DAN SASARAN TAHUNAN YANG DIKEMASKINI DI BAWAH INISIATIF 11A

- 6.1. Mesyuarat bersetuju dengan KPI dan Sasaran Tahunan yang dicadangkan dengan masih mengekalkan KPI 098 dan KPI 099 dan mengemaskini sasaran tahunan berdasarkan TOR yang terkini (**Rujuk Lampiran C**).
- 6.2. KPI dan Sasaran Tahunan akan dibentangkan semula di mesyuarat akan datang selepas CIDB menerima cadangan daripada NBS.

7. PEMBENTANGAN TERM OF REFERENCE (TOR)

7.1. Mesyuarat telah bersetuju secara dasarnya *Term Of Reference* (TOR) yang telah dibentangkan dalam mesyuarat sebelum ini. Walaubagaimanpun, Pengerusi mencadangkan agenda bagi pengesahan TOR dibuat secara terperinci terutama bagi penambahan skop mengenai BIM dibuat secara berasingan. Mesyuarat bersetuju perbincangan TOR akan diadakan pada 11 Ogos 2017 (Jumaat) yang akan dipengerusikan oleh Dato' Srikandan (LAMPIRAN D).



8. HAL-HAL LAIN

8.1. Tuan Pengerusi mengucapkan terima kasih sekali lagi kepada semua ahli jawatankuasa yang hadir dan menangguhkan mesyuarat pada jam 12.30 tengah hari.

Makluman

Disediakan oleh;	Disemak oleh;
(131,4	man
(Nama: Sr Nazir Muhamad Nor)	(Nama: Sr Mohd Zaid Zakaria)
Tarikh: 22/9/17	Tarikh: $27/9/17$
Disahkan oleh;	
(Nama: En Kamaluddin Hj. Abdul Rashid)	
Tarikh:	

LAMPIRAN A

MAKLUMBALAS PERKARA BERBANGKIT DARI MESYUARAT IWG 15 BIL.2

- Pemilik inisiatif telah membentangkan cadangan 3.1 ahli mesyuarat. kepada charter terdapat beberapa Walaubagaimanapun, pembetulan yang perlu dibuat ke atas charter tersebut:
 - a. Tajuk dan aktiviti perlu diperbaiki dengan membuang perkataan 'Standard'
 - b. Mengemaskini potentional external partners (professional boards, association & other identified stakeholders)
 - c. Mengemaskini working group (CIDB, JKR, JPS, REHDA, MBAM, SIRIM, RISM, KPKT, PAM, ACEM, IEM, TEEAM, STANDARDS MALAYSIA)
 - d. Mengemaskini aktiviti mengikut sasaran KPI CITP dengan membuat pindaan ke atas jadual Charter dengan menambah kolum untuk deliverables

Charter telah dikemaskini dibentangkan dalam **Agenda 5 (Pengesahan** OIC KPI dan Sasaran Tahunan yang Dikemaskini di Bawah Inisiatif I1a)

LAMPIRAN A

MAKLUMBALAS PERKARA BERBANGKIT DARI MESYUARAT IWG 15 BIL.2

OIC &

Pemilik inisiatif

rathir.			
4.1	Pemilik inisiatif membentangkan cadangan Terma Rujukan Perunding kepada ahli mesyuarat. Ahli mesyuarat berpandangan bahawa skop perkhidmatan perunding perlu dikemaskini mengikut penetapan berikut:	OIC & Pemilik inisiatif	Perkara ini akan dibentangkan (Pembentangan Terms of Referer

- h. Memberi input, menyediakan bahan penulisan berkaitan Spesifikasi Pembinaan Nasional bagi tujuan promosi dan Majlis Pelancaran Dokumen Spesifikasi Pembinaan Nasional.
- Deliverables dan sub-deliverables perlu dipinda selari 4.2 dengan skop perkhidmatan yang telah dikemaskini.
- Tempoh perkhidmatan perunding baharu yang 4.3 dicadangkan oleh ahli mesyuarat adalah 12 bulan dari tarikh lantikan. Ahli mesyuarat berpendapat cadangan asal fempoh pembangunan iaitu 7 bulan adalah ferlalu singkat dan hampir mustahil memandangkan pembangunan inisiatif ini perlu mendapatkan meklumbalas industri sekurang-kurangnya di dua perinakat pembangunan.

di dalam Agenda 6 ence (TOR))

Perkara ini akan dibentangkan di dalam Agenda 6 OIC & (Pembentangan Terms of Reference (TOR)) Pemilik inisiatif

> Perkara ini akan dibentangkan di dalam Agenda 6 (Pembentangan Terms of Reference (TOR))

LAMPIRAN A

MAKLUMBALAS PERKARA BERBANGKIT DARI MESYUARAT IWG 15 BIL.2

Ahli mesyuarat mencadangkan agar pelawaan tender / sebutharga dipanjangkan kepada badan bebas pengaruh antarabangsa seperti NBS, Construction Industry Council Hong Kong, Building Construction Authority Singapore dan Canada. Council National Research mesyuarat ahli Walaubagaimanapun, berpendapat bahawa penglibatan gabungan syarikat antarabangsa dan syarikat tempatan lebih baik pilihan yang merupakan syarikat pengetahuan memandangkan industri keadaan terhadap berkenaan pembinaan semasa negara.

OIC & Pemilik inisiatif Pelawaan telah dibuat kepada N8S, Construction Industry Council Hong Kong, Building Construction Authority Singapore dan National Research Council Canada melalui emel. Walaubagaimanapun tiada respon yang diberikan. CIDB telah mengemukakan pelawaan Cadangan Teknikal dan Kewangan (CTK) kepada KPK Quantity Surveyors (Peninsular) Sdn. Bhd. pada 10 November 2016.

Cadangan teknikal dan kewangan perunding telah diferima pada 30 Disember 2016 dengan cadangan pembangunan yang melebihi skop pembangunan dalam IOR yang diluluskan oleh IWG 15. Cadangan perunding adalah untuk membangunkan spesifikasi moden dengan BIM Capability yang merujuk kepada NBS tools. Skop ini berkalt dengan pembangunan Building Information Modelling di bawah Inisiatif P4a & P4b.

Satu Jawatankuasa Khas telah ditubuhkan bagi mengkaji kebolehlaksanaan pembangunan NSC dengan keupayaan BIM. Jawatankuasa tersebut dipengerusikan oleh Penaja inisiatif 11a dan ahlinya yang terdiri daripada 2 ahli IWG 11, 2 ahli IWG 15 dengan 1 professional yang berkepakaran dalam BIM. Sebanyak 3 mesyuarat telah diadakan dan mesyuarat terakhir pada 9 Jun 2017.

LAMPIRAN A

3

MAKLUMBALAS PERKARA BERBANGKIT DARI MESYUARAT IWG 15 BIL.2

OIC &

Pemilik inisiatif

4.5	Pemilik inisiatif memaklumkan bahawa, pelawaan tender/ sebutharga akan dibuat secara perolehan terhad (restricted procurement). Pemilik inisiatif dan OIC diminta untuk membuat pelawaan tidak rasmi kepada syarikat seperti yang dinamakan di item 4.4 untuk mendapatkan maklumbalas terhadap keinginan untuk menyertai sebut harga rasmi serta merta sementara proses memuktamadkan terma rujukan perunding (TRP)

Ambil maklum. Perkara ini akan dibentangkan di dalam Agenda 6 (Pembentangan *Terms* of Reference (TOR))

4.6 Sekiranya terdapat maklumbalas minat daripada syarikat berkenaan, beberapa penambahbaikan perlu dibuat ke atas terma rujukan perunding (TRP), antaranya:

 a. Tambahan ke atas skop perunding iaitu memastikan spesifikasi yang dibangunkan bersesuaian dengan praktis domestik; dan

b. Menterjemah terma rujukan perunding ke Bahasa Inggeris

6.1 PMO memaklumkan bahawa di satu perbincangan lain diperingkat Thrust Working Group (TWG) bahawa penglibatan perwakilan sektor swasta adalah tidak mencukupi. PMO meminta pertimbangan Pengerusi dan ahli mesyuarat untuk penambahan ahli jawatankuasa melibatkan sektor swasta sekiranya dirasakan perlu. OIC & Perkara ini (Pembentari inisiatif

Perkara ini akan dibentangkan di dalam Agenda 6 (Pembentangan Terms of Reference (TOR))

PMO Makluman sahaja

LAMPIRAN A

MAKLUMBALAS PERKARA BERBANGKIT DARI MESYUARAT IWG 15 BIL.2

· · · · · · · · · · · · · · · · · · ·
Oleh yang demikian, Timbalan Pengerusi
mençadangkan agar PMO membuat jemputan
kepada Royal Institution of Surveyors Malaysia
(RISM). PMO diminta untuk mendapatkan
pencalonan dari Timbalan Pengerusi selaku
Presiden RISM dengan segera.

- Selain itu, dengan mengambilkira persetujuan dan cadangan ahli mesyuarat untuk melantik wakil daripada JSM, PMO diminta untuk memanjangkan iemputan lantikan ahli iawatankuasa IWG 15 - National Specification for Construction (NSC) kepada En Ridzwan Kassim dari Jabatan Standard Malaysia
- OIC diminta untuk mengemaskini slide 6.4 Jawatankuasa dengan mengasingkan ahli mesyuarat mengikut kumpulan berikut:
 - a. Perwakilan Sektor Awam
 - b. Perwakilan Sektor Swasta
 - c. Perwakilan CIDB Malaysia

LAMPIRAN A

PMO

Surat jemputan keahlian telah dihantar kpd pihak RISM pada 24 Jun 2016 yang lalu. Pihak RISM akan membincangkan perkara ini di dalam mesyuarat QS committee.

PMO Surat jemputan keahlian telah dihantar kepada Jabatan Standard Malaysia dan JSM telah menamakan Pn Fakheezah Borhan. Penolong Pengarah Kanan JSM sebagai wakil di dalam IWG15.

OIC Seperti di Lampiran 1

- En. Kamaluddin bin Hj. Abdul Rashid (JKR) -[Chairman]
- Ir. Muhammad Azman bin Jamrus (JKR)
- Ar. Zairul Azidin bin Badri (JKR)
- Ir. Razdwan bin Kasim (JKR)
- Dato' Haji Abu Bakar bin Johar (JKT) / En Zamri Salleh (JKT)
- En. Mohd Sor bin Othman (JPS)
- En, Esa bin Ahmad (JLN)
- Pn. Fakheezah binti Borhan (JSM)

- Dato' Sr. Srikandan Kanagainthiram (KPK) [Co-Chairman]
- En. Abdul Aziz bin Long (SIRIM)
- · Ar. Zamri bin Ismail (PAM)
- Ir. Wong See Foong (ACEM)
- Dato' Soam Heng Choon (REHDA)
- Mr. Ong Ka Thiam (MBAM)
- ir. Hj. Shahul ikram bin Adnan (JSP EMENEA)
- Ir. Looi Hip Peu (MEKTRICON)

- Sr Sariah Abd Karib
- Sr Mohd Zaid Zakaria
- Sr Nazir Muhamad Nor
- Sr Noridah Shaffii

LAMPIRAN A

LAMPIRAN 1 6

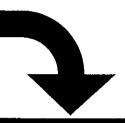
LAMPIRAN B



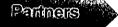
Achievements and ongoing up to Q2 2017

Special committee (ITC-NCS) exabilished in March 2017

Review scape of development of NSC



Technical visit to NBS, UK April 2017 TC-NCS and CIDB top management agreed NBS specification tools is transformational to Malaysian Construction Industry



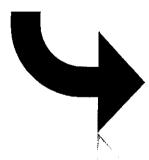
JKR, KPKT, JPS, REHDA, MBAM, SIRIM, RISM, PAM, ACEM, IEM, TEEAM, STANDARDS MALAYSIA, MOF



Initiative I1a
Introduce National Specification for Construction

LAMPIRAN B

Achievements and ongoing up to Q2 2017



TC-NCS Report Completed in June 2017

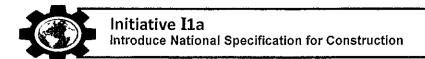
5 Way Forward Identified

- 1. To develop NSC with BIM capability
- To adopt NBS specification tools, well established specification system
- 3. To direct collaborate with NBS subject to both parties mutual agreement on commercial aspect
- 4. Development of specification platform and integration to BIM platform lead by iWG11
- 5. Development of content specification lead by IWG15

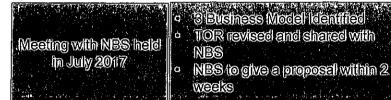
Partiners

JKR, KPKT, JPS, REHDA, MBAM, SIRIM, RISM, PAM, ACEM, IEM, TEEAM, STANDARDS MALAYSIA, MOF

2



Achievements and ongoing up to Q2 2017





The revised TOR for National Specification is to be endorsed by IWG15 on 8th August 2017.



JKR, KPKT, JPS, REHDA, MBAM, SIRIM, RISM, PAM, ACEM, IEM, TEEAM, STANDARDS MALAYSIA, MOF

LAMPIRAN C

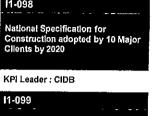
I1a Introduce National Specification for Construction

Weightage: 5%

LAMPIRAN C

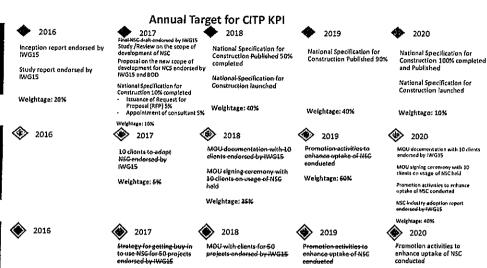
Weightage: 50%





50 projects adopt National Specification for Construction by 2020





Weightage: 35%

LAMPIRAN D

LAMPIRAN D

TERMS OF REFERENCE APPOINTMENT OF CONSULTANT

FOR THE

DEVELOPMENT OF NATIONAL SPECIFICATIONS FOR CONSTRUCTION (NSC) WITH BIM CAPABILITY

FOR

CONSTRUCTION INDUSTRY DEVELOPMENT BOARD MALAYSIA

TERMS OF REFERENCE

TERMS OF REFERENCE FOR APPOINTMENT OF CONSULTANT TO DEVELOP NATIONAL SPECIFICATION FOR CONSTRUCTION (NSC) WITH BIM CAPABILITY

. TITLE OF SERVICES

Consultancy Services To Develop a National Specification for Construction with BIM Capability.

2. INTRODUCTION

- 2.1. Construction Industry Transformation Program (CITP) 2016-2020 was introduced to develop and propose a number of initiatives to improve the performance of the local construction industry to the international level. Construction Industry Development Board Malaysia (CIDB) are now actively implementing initiatives contained under 4 main strategic thrusts; Quality, Safety and Professionalism, Environmental Sustainability, Productivity and Internationalisation.
- 2.2. As a step in improving the performance of local industry players, CITP 2016-2020 under the Strategic Thrust 4 Internationalisation, proposed the initiative to internationalize practice and construction standards is by introducing a construction specifications in generally resulting from the collection, integration and consolidation of specifications available either it is an international specification, region specification, national specification of a specific company.
- 2.3. This step will also integrate the public standard specifications to become more holistic. It will reduce disputes, contradictions and uncertainties of opinion and eventually will improve the uniformity of the specifications used in the construction industry. The proposed national specification for construction (NSC) will cover all specifications available including building material, safety, environmental, methods, quality of workmanship (workmanship) and so on.
- 2,4. To ensure this specifications constantly being reviewed and updated systematically and yet remain relevant in future, development of national specification should be digitalised and integrated with BIM platform. To enable the digital modern specifications with BIM capability, a proper tools/system with a systematic content specification need to be

developed to become a centralised source of information that facilitate the industry players to develop the project specifications quickly and accurately complying with certain minimum standards.

- This National Specification for Construction will give added value to each construction project as it will lead to cost reduction, efficient cost management and a minimum wastage.
- 2.6. Eventually, this construction specification will contribute towards improving the quality and performance of the parties involved in implementing domestic construction projects. This standardization will also create business competition between local and foreign players to bid for projects in the domestic market. The ability to remain competitiveness in our own local market would contribute to the Strategic Thrust 4 of Internationalization under CITP.

OBJECTIVES OF DEVELOPMENT

- 3.1. To establish a platform/system which includes a library of National Specification for Constructions for building works, civil and infrastructure works as a tools/mechanisme for construction stakeholders to inculcate best practices in preparing specifications for construction projects nationwide;
- 3.2. To develop content specifications for building works, civil and infrastructure works with regard to specifications of quality, building material, safety, environmental, methods (workmanship) and etc in accordance to the platform/system and tools/mechanisme developed to ensure the performance and quality of construction achieve the minimum standards set; and
- To minimize disputes, contradictions and uncertainty resulting from inconsistent practices in the preparation of project specifications.

4. SCOPE OF SERVICES

4.1 Development of Content Specifications

 To conduct a study on construction specifications available in the domestic market i.e Public Works Department's specifications. Kementerian Kesejahteraan Bandar, Perumahan & Kerajaan

- Tempatan , Pertubuhan Arkitek Malaysia, Mass Rapid Transit Corporation, Tun Razak Exchange and KLIA specifications
- To study all statutory requirements for materials such as "schedule 4" of CiDB Act. Malaysia Standard, etc. to be incorporated in the proposed National Specification for Construction (NSC)
- To propose main list of content for the National Specification for Construction (NSC) that includes specification of building works, civil and infrastructure works for the consideration and approval of the Initiative Working Group IWG15 - NSS;
- 4. To develop content specifications for the NSC for building works, civil and infrastructure works with regard to specifications of quality, building material, safety, environmental, methods (workmanship) and etc for the approval of the Initiative Working Group IWG15 NSS;
- To obtain and consolidate feedback from the industry on the content specification (initial draft) of the NSC and to prepare reports on industry validation with justifications and to make changes or amendments on the draft if any;
- To amend and update the initial draft of the content specification of the NSC;
- 7. To obtain and consolidate feedback from the industry on the second draft of the content specification of the NSC and to prepare reports on industry validation with justifications and to make changes or amendments on the draft if any;
- 8. To prepare a final draft of the content specification for the consideration and approval of the Initiative Working Group (IWG15-NSS) for the development of the NSC;
- Getting approval from the Initiative Working Group (IWG15-NSS) for the development of the NSC under CITP; and
- 10. To provide input in the preparation of written materials related to the NSC for promotional purposes of the Launching Ceremony of NSC

- Development of System/Platform and Tools/inechanisme Specifications 4,2
- 1. To conduct a study on construction specifications systems/tools available locally and internationally i.e NBS create, masterformat, etc
- To propose the development design of system/tools for specifications platform as per requirement outlined by the MyBIM Centre/BIM suitable for Malaysian construction industry and Malaysia BIM development consultant for the approval of CIDB and BIM Technical Committee. This stage should comprise the following:
- Initial meeting between CIDB, key stakeholders, consultants and Consultant Project team to define: æ
 - i. Project plan & governance
- ii. Roles & responsibilities of project team and stakeholders
- Project Scoping & Requirement Analysis: ف
 - i. System/toots format/layout
 - ii. Content Management
- iii. Data Analysis and associated costing information format
 - iv. Input data types/classification/language
 - v. Output data fields
- vi. User management
- Functional requirement/specification documentation & review, and ğ workshop meeting Second ပ
- functional ంగ్ర stakeholders requirement/specification sign off With Agreement Ö
- Malaysia BIM platform based on agreed functional specification as 3. To develop the system/tools for national specifications for construction suitable for Malaysian construction industry and approved by CIDB and BIM Technical Committee including coding development, testing and fixing issues raised,
- To provide a User Acceptance Test upon the completion of tools/system development comprising:
 - Preparation for user acceptance testing and conduct the testing ю. Э
 - Test data entry/upload

ė

- User acceptance testing
 - Minor modification

- Retest for changes نب ئە
- Stakeholder sign-off
- 5. To develop communication strategy and training programme, support and provide training on the use of tools/system to the relevant construction stakeholders for the period of 1 year throughout the process of adoption of NSC by stakeholders

DELIVERABLES AND SUB-DELIVERABLES <u>ن</u>

be submitted by the consultants based on objective of services to be The following are the deliverables and sub-deliverables achieved: તું

Z			
	-	:	Sub-Deliverables
₹**	Study Report on the available construction specifications domestically and the available specifications system overseas	-	Compilation of construction specifications available in the domestic market i.e. Public Works Department's specifications, Kementerian Kesejahteraan Bandar, Pertubuhan Arkitek Malaysia, Mass Rapid Transit Corporation, Tun Razak Exchange and KLIA specifications;
		<u>5</u>	Inception Report - Summary of recommendations and enhancements to the existing specifications and proposal on specifications classification based on model used in the industry; and recommendations on the best specification system to be adopted and tailored to the Malaysian construction industry.
		5.3	Paper proposal and presentation to IWG15-NSS for approval on the proposed framework for NCS and approval from IWG15-NSS
7	Preliminary/ First drafts of the National Specification for Construction (NSC)	2.1	Content Development Main Content List for the National Specification for Constructions for approval of IWG15-NSS;

		2.2	
			Content specification on construction materials;
-		2.3	Content specifications on safety;
		2.4	Content specifications on environment,
		2.5	Content specifications on methods;
•		2.6	Content specifications on workmanship (workmanship);
		2.7	Other specifications.
		2.8	System Development Design of the specification software platform with classification tailored with the main content list of NSC for the approval of IW/G15-NSS
 -		2.9	50% of the system for the NSC developed
က	Construction industry feedback report on the Preliminary/First Draft	3.7	Content Development Paper/proposal on methodology to consolidate feedback from industry;
		3.2	A complete list of industry players involved in the feedback;
		3.3	Feedback from the industry.
		4.	System Development 100% of the system for the NSC developed and 40% of the data entry completed
4	Second drafts of the National Specification for Construction	4.	Content Development Interim report -Report on changes and enhancement with justifications
		4 2	System Development 80% of the data entry for NSC completed

	Sub-Deliverables	Content Development Paper/proposal on methodology to consolidate feedback from industry;	A complete list of industry players involved in the feedback;	Feedback from the industry.	Content Development Report on changes and enhancement with justifications.	System Development 100% of the data entry for NSC completed including list of amendments made and/or discarded	Content Development Three (3) copies (hard copy) of the Final Draft of the National Specification for Construction;	Three (3) copies (soft copy) of the Final Draft of the National Specification for Constructions in original format of word, excel and poft.	System Development 100% completed full form specifications uploaded into the delivery software (to provide the platform for the specifications and facilitate linkage for a fully BIM enabled system)	Promotion Introduction Video and Written Introduction Video and Written brochures / materials related to the National Specification for Constructions for Launching and promotional purposes approved by CIDB Malaysia and IWG15-NSS
1		5.1	5.2	5.3	6.1	6.2	7.1	7.2	7.3	8.1
Delicement		Construction industry feedback report on the Second Draft			Final Draft of the National Specification for Constructions		Kertas Pertimbangan for IWG15- NSS Committee approval			Promotion materials of NSC, Trainings and technical support services on NSC
2	1	2			9		2			∞i

_			
Sub-Deliverables	Trainings Training Module for NSC, system user manuals and training videos approved by CIDE Mataysia and		Maintenance and support services Maintenance of the software platform and report on users related issues solved for the period of 12 months.
!	8.2	8.3	8.4
Deliverables			
Num.			·
			

Delivery of Deliverables is in phases based on the following schedule:

ä

Ooficemble	
Dell'Aci apie	Report Delivery Date / Duration (months)
Deliverable 1	60 days of development (2 months)
Deliverable 2	450 days of development (15 months)
Deliverable 3	30 days of development (1 month)
Deliverable 4	30 days of development (1 months)
Deliverable 5	30 days of development (1 month)
Deliverable 6 & 7	30 days of development (1 month)
Deliverable 8	360 days of development (12 month)
TOTAL	990 days/33 MONTHS

METHODOLOGY DEVELOPMENT

۲.

- a. The development of this National Specification for Constructions is recommended to use the following methodology based on the scope of consultancy services or any additional methodologies that are appropriate in achieving deliverables and sub-deliverables specified:
- a. Secondary data analysis: policy, literature review;

- Analysis on the current practice of industry player domestically and internationally;
- Analysis from the construction professionals/consultants in preparing specifications for projects;
- d. Interviews with industry players involved in the preparation of construction specifications available; i.e PWD officers and consultants;
- e. Meetings and workshops with industry players;
- f. Organizing feedback sessions / newspaper advertising for public comment/ distribution for public comment; and
- Analysis of industry feedback received.

TEAM CONSULTANT

∞:

- The consultant is free to identify and appoint experts as members of the development team.
- The consultants must provide details of the work shows the allocation of resources (people, time, equipment, and so on) to perform such work.
- CV of each fearn members should be submitted to CIDB Malaysia when submitting technical and financial proposals.

9. RESULTS AND IMPACT OF DEVELOPMENT

- The development of National Specification for Construction will contribute towards the enhancement of the quality and performance of the players in the construction industry and domestic construction projects.
- b. The National Specification for Construction will create uniformity in preparing project specifications and this will also create business competition between local and foreign players to bid for projects in the domestic market and increase the ability of local players to remain competitive.

PERIOD OF DEVELOPMENT

In overall, number of days required to develop National Specification for Constructions are nine hundred and ninety (990) days / 33 months (Including Commercial and Public Holidays) from the date of appointment.

11. INTELLECTUAL PROPERTY RIGHTS

ಣೆ

- Deliverables and sub-deliverables prepared and submitted by the consultant under this terms of reference are the intellectual property of CIDB. No part or parts need to be reproduced in any form without prior permission by CIDB. CIDB reserves the right to alter, modify or change any information if it deems so.
- The consultant and CIDB Malaysia is obliged to take all reasonable measures to protect confidential information disclosed by either party, if any.

12. AMENDMENT AND EXTENSION OF THE PERIOD OF AGREEMENT

- Amendment and extension of the period of agreement for government procurement consultancy services can be approved by the origin Approving Authority (PBM).. Among the factors that allowed for the extension of the period of agreement include:
- i. Changes in scope;
- Force Majeure;
- iii. Delays caused by any of the contingency referred to in the contract;
- iv. Instructions given by the Government which resulted in the suspension of the project;
- v. Delays caused by the Government and other delays
- The validity period of the agreement shall remain in force during the application of the amendment and extension of the period of agreement envisaged, applied and considered.

13. LATE PENALTY (LAD)

a. CIDB Malaysia has the right to impose a liquidated ascertain damages (LAD) at a certain rate with the following number of days late as

stipulated in the letter of appointment if the consultant fails to submit deliverables / sub-deliverables by a specified date.

 Imposition of the liquidated damages (LAD) is made by deduction of progress payments for consultancy services based on a formula established by the Government as follows:

LAD = Base Lending Rate X Consultancy Fees

(subject to a minimum of RM100 per day)

14. TERMINATION OF CONSULTANCY SERVICES

- CIDB Malaysia has the right to terminate the services of consultants by giving written notice of termination of service immediately without any prejudice if:
- The consultant failed to produce deliverables/sub-deliverables within a specified period without reasonable excuse;
- The consultant failed to carry out its duties in accordance with the scope determined at his/her full commitment;
- c. The consultant found to have violated any of the Terms and Conditions of Consultant's appointment as outlined; and
- d. The consultant failed to attend meetings or workshops set.
- Termination of service caused by Corruption or Act Misconduct;
- Consultant is being prosecuted under laws relating to corruption or misconduct in administering the contract / agreement either for this project or any other Government projects;
- b. With the termination of service, the government has a right to demand all losses, costs, damages and expenses (including any incidental costs and expenses) incurred by the government as a result of the termination of such services; and

For prevention of doubt, the parties hereby agree that the company
 / firm is not entitled to make a claim for any loss including loss of
 profits, damages, claims or any claims after termination of the
 agreement / contract.

15. FEES OF CONSULTANCY SERVICES

 Payment of consulting services shall be in accordance with the stages of progress of the project / study as follows: -

SCHEDULE OF PROGRESS PAYMENTS OF CONSULTANCY SERVICES

Stage of Work Progress	Payment
Deliverable 1 Study Report on the available construction specifications domestically and the available specifications system overseas	5% upon submission of the <i>inception</i> Report and approval IV/G15-NSS
Deliverable 2 Preliminary/ First drafts of the National Specification for Construction (NSC)	25% upon submission of the First Draft and 50% of the specification system developed
Deliverable 3 Construction industry feedback report on the Preliminary/First Draft	Deliverable 3 Construction industry feedback on First draft and 100% on the Preliminary/First Draft 40% of data entry
Deliverable 4 Second drafts of the National Specification for Construction	20% upon submission of the Second Draft Report on changes and enhancement with justifications with 80% of data entry completed
Deliverable 5 Construction industry feedback report Industry feedback on on the Second Draft	5% upon submission of the Report Industry feedback on Second draft
Deliverable 6 & 7 Final Draft of the National Specification for Constructions & IWG15 Committee Approval	15% during the final approval Committee IWG15-NSS and 100% of completed full form specifications uploaded into te delivery software

Deliverable & Promotion materials of NSC, Trainings and technical support services on NSC	5% upon approval of CIDB Mataysia on the promotional materials, completion of training programmes and maintenance period.
OVERALL TOTAL	100%

Consultancy fees claimed are excluded GST 6%. CIDB Malaysia will pay
the fees of consultant progressively based on the table of schedule of
payment above.

16. COST OF REIMBURSABLE CLAIMS (IB)

- a. Any expenses (other than consultants' fees) are subject to the requirements of a development. CIDB Malaysia has the right to cancel the reimbursable claims if it is not reasonable or not supported with a receipt / bill;
- b. Details and rates of reimbursable claim 40 not exceed the colling as specified in Appendix A. The rate and cost of reimbursable claims-are subject to the rate set in the Manual of Procurement of Consultant Services 2011 edition, Ministry of Finance; and
- CIDB reserves the right to cancel the reimbursable claims that exceed the cut-off date.

(This space is deliberately left blank)

APPENDIX A

ESTIMATED-COST-OF-REMUNERATION

	DESCRIPTION		ESTIMATED COST (RM)
A. — ORGANISING MEETING	ETING		
i-Weeting IWG15 - Claims trip for 4 consultants 70KM RM0.70 × 4 × 3 times Fell claims would RM12.00 × 2 × 4	is trip for 4 consultants nes 10 X 2 X 4	_	588.00 9 6.00
BORGANISING MEETING	ETING		
i- Tickets 4 consultants RM1000 (4-way) X.4			8.000.00
ii-RM0.70.X.70KM.X.4.x.2.sessions Claims-Tol-R.20.00.X.4.X.4.trip	2-sessions 4 frie		392.00
IIIParking-fee RM3.50-X.60-x.2-hour-sessions	SGIONS		320:00
C. FOREIGN-CONSULTANT	JLT.ANT		
i. Allowance Payments maximum of 90 days Per diem allowance (60 days) £310 / day The remaining 30 days X RM170	aximum of 90 days ays) £ 310 / day RM170	***	18,600.00 5,100.00
D. COMMUNICATION	*		
i. Phone calle, fax, e-mail and the d and etc for lump-sum (without bills) RM750-X 15 Months	i: Phone calls, fax, e mail and the delivery of services such as postal and etc for lump sum (without bills) RM750 X.15 Months	s-such as-postal	11,250.00
E. COST OF DOCUM	COST OF DOCUMENTATION AND PREPARATION OF REPORT	RATION OF	
a. Preliminary report	Maximum-RM50 / Set	20-set	4.000.00
b. Second report	Maximum RM80 / Set	20-set	1,600.00
c. Draft Final Report	Maximum-RM150 / Set	5-sets	750.00
d. Final-report	Maximum-RM250-/ Set	5-sets	4,250.00
e. Progress report	Maximum RM50 / Set	2-sets of X 15 Months	1,000:00
		TOTAL	50,866.00
	CEC	GSI 6%	3,052.00
	VETERING	TOTAL MOREEU	10.00 U.S.C.