

MINIT MESYUARAT BIL. 3 CITP IWG on National Construction Cost Centre CITP-IWG12/P5a-N3C

Date : 29 December 2017 (Friday)

Time : 10.30 am - 12.00 pm

Venue : Bilik Resak, Tingkat 32,

CIDB Malaysia, PWTC

Chairman : Dato' Sr Sri Kandan Kanagainthiram

Immediate Past President

Royal Institution of Surveyors Malaysia

ATTENDANCE

Dato' Sr Sri Kandan Kanagainthiram Royal Institution of Surveyors Malaysia (Chairman) Datuk Ir. Abdul Kadir Mohd Din 2. Ranhill Holdings Berhad Sr Eddie Wong Weng Hong Royal Institution of Surveyors Malaysia 3. Sr Ruzimah Othman Jabatan Pengairan dan Saliran 4. 5. Pn. Siti Aminah A. Manaf Programme Management Office, CIDB Malaysia En. Muhamad Fariq Abd. Hamid Programme Management Office, 6. CIDB Malaysia 7 En. Roswadi Muhammed Personnel & Contractor Devt. Sector, CIDB Malaysia Sr Mohd Zaid Zakaria Initiative Owner (IO), CIDB Malaysia 8.

9. Sr Nazir Muhamad Nor Officer In Charge (OIC), CIDB Malaysia
10. Pn. Afifah Rahim Business Division, CIDB Malaysia

11. En. Muhammad Lutfi Khalil Business Division, CIDB Malaysia

12. Sr Amnah Mohammed Salleh (Secretary) CIC-QS Services Sdn. Bhd.



ABSENT WITH APOLOGIES

1.	Sr Rozita binti Yahaya (Deputy Chairman)	CKUB, Jabatan Kerja Raya
2.	Sr Husnan Hussin	CKUB, Jabatan Kerja Raya
3.	Sr Sariah Abd Karib	Corporate & Business Sector, CIDB Malaysia
4.	Sr Noridah Shafii	Programme Management Office, CIDB Malaysia
5.	Sr Wan Ainon Zuraiha Wan Abdul Khalid	Royal Institution of Surveyors Malaysia
6.	Sr Umi Kalsum Zolkafli@Zulkifli	Royal Institution of Surveyors Malaysia
7.	Dr. Suraya Ismail	Khazanah Research Institute
8.	Datuk Kwan Foh Kwai	Sunway Construction Group Berhad
9.	Dato' Sr Aziz Abdullah	Lembaga Lebuhraya Malaysia
10.	Ir. Mohd Zuki Muda	Indah Water Konsortium Sdn.Bhd.
11.	Sr Gar Ti Wei	KPK Quantity Surveyors (Sem.) Sdn
		Bhd



1. WELCOMING ADDRESS BY CHAIRMAN

- 1.1. Chairman welcomed and thanked all committee members, initiative sponsor, initiative owner and secretariat for attending the third meeting for CITP IWG on National Construction Cost Centre (CITP-IWG12/P5a).
- 1.2. The minutes for meeting no. 2 was confirmed without any amendment; proposed and seconded by Datuk Ir. Abdul Kadir Mohd Din and Sr Eddie Wong respectively.

2. TECHNICAL COMMITTEE

2.1 Initiative Owner (IO) updated on the Technical Committee members' list and the number of meetings held to date.

Technical Committee		Members	No. of meetings	
1	Construction Cost Model (TC-CCM)	 Sr Wan Ainon Zuraiha Wan Abdul Khalid (Pengerusi) Sr Eddie Wong Weng Hong (Timb. Pengerusi) Sr Ruzimah Othman Sr Azmi Mohamed Mr. Tong Yew Meng Sr Muhammad Zuhry Mohd. Mazlan 	1	7
2	Tender Price Index (TC-TPI)	 Sr Husnan Hussin (Pengerusi) Sr Gar Ti Wei (Timb. Pengerusi) Pn. Raja Normawati Raja Ayob Pn Nor Azlinda Mohamed Sabli Sr Umi Kalsum Zolkafli @ Zulkifly En. Firdaus Ab. Rahman Sr Jamisah Ibrahim 	3	



Technical Committee		Members	No. of meetings	
3	Lifecycle Costing (TC-LCC)	 Dr. Suraya Ismail (Pengerusi) Sr Umi Kalsum Zolkafli @ Zulkifli (Timb. Pengerusi) En. Wan Ahmad Shukiman Wan Jaafar Ir. Mohd Sabri Mat Deris En. Hasnan Ab. Hamid Datuk Kwan Foh Kwai Datuk Abdul Kadir Mohd Din 	5	
4	Labour & Plant Constant (TC-LPC)	 Sr Hjh. Rozita Yahya (Pengerusi) Mr. Ong Ka Thiam (Timb. Pengerusi) Sr Mohd Zaid Zakaria Sr Husnan Hussin En. Suhaimi Mohd Aini Pn Rauzah Zainal AbidinRau Pn Siti Mazzuana Shamsuddin Sr Dr. Sarajul Fikri Mohamed Dr. Chia Fah Choy Syed Abdul Haris Syed Mustapa Mr Verdon Tan En. Nur Aziz Abu Bakar 	2	

Action: Information

2.2 IO reported that the meeting with the chairmans from the Technical Committee under initiative P5a (except Dr Suraya) was held on 15th December 2017 to report and monitor the progress of the actual work done.

Action: Information

2.3 The members of the technical committee agreed that RISM particularly should consider establishing a subsidiary company for the collection of data. Examples on companies who have established subsidiaries are RICS – BICS, RIBA – NBS, PAM – Green Building, Archidex etc. In order to establish a company, there are terms of agreement that need to be reviewed internally by RISM

Action: RISM



3. PROGRESS REPORT OF IWG12/P5a

3.1 KPI achievement of Initiative P5a

Officer in Charge (OIC) presented in detail the KPI achievement of Initiative P5a up till Dec 2017.

3.2 All targets for KPI Initiatives have been achieved:

KPI Initiative	Initiative KPIs	Progress until December 2017		
78	N3C portal in operation	myN3C portal was launched on 14 November 2016 and currently, there are 10,000 unique users registered. Most popular users are from (i) Contractors (4,700, 47%) (ii) Consultants (2,200, 22%) (iii) Developers (1,200, 12%)		
79	Construction Cost Information published by Q3 2020	RISM had developed 60 prototype models of construction cost information that had been completed on 6th December 2017.		
80	Tender Price Indices introduced by Q3 2020	The TOR for Tender Price Index had been finalized with the technical committees TC-TPI on 21st November 2017. RISM had been appointed on 12th December 2017 as the consultant to develop Ready Reckoner (standard base rate) and to prepare Tender Price Index.		
81	Lifecycle Costing published by Q3 2020	MCM Value Sdn Bhd had completed the Life Cycle Costing Study by 15 September 2017 (6 months period). The draft of LCC study consist of 3 scopes: (i) Literature Review (ii) Data Collection (iii) Framework for LCC System Application		



KPI Initiative	Initiative KPIs	Progress until December 2017			
82	Labour and Plant Constant published by Q3 2020	KH Alliance had been appointed on 6th December 2017 as the consultant to conduct the study on labour and plant constant. CIDB will set up a technical committee meeting in early January.			

DSK congratulated the team for achieving all the targets for KPI initiatives.

Action: Information

3.3 KPI 78 - N3C portal

3.3.1 OIC also reported that on average, there is an average of 4,000 times download from the portal per month. DSK congratulated the team for the good job.

Action: Information

3.3.2 For cost data automation, IO mentioned that while CIDB is now considering PCEPREMO, discussions are still ongoing with Exactal. DSK requested CIDB to "push" Exactal to give their proposal.

Action: IO and OIC



3.4 KPI 79 - Construction Cost Information

3.4.1 OIC reported there are now 1,500 BQs available and for the next batch, RISM is required to analyse 200 BQs. DSK requested RISM to select the BQs based on different types of construction projects.

Action: RISM

3.5 KPI 80 - Tender Price Indices

3.5.1 DSK requested RISM to expedite in producing TPI.

Action: RISM

3.6 KPI 81 - Life Cycle Costing

3.6.1 MCM Value Sdn Bhd presented their findings for the "Study on the Proposal for Management of Life Cycle Costing (LCC) Data for Construction Projects in Malaysia". They were represented by Sr Dr Mazlan Che Mat and Sr Muhammad Zuhry Mohd. Mazlan.

Action: Information

- 3.6.2 Based on the Terms of Reference by CIDB in August 2016, the objectives of the study is to "identify elements contributing to LCC, obstacles in LCC and critical success factors in LCC data collection, methodology involved and proposed web based LCC system (framework) for the selected construction projects". MCM presented the following:
 - Collection & Findings
 - Obstacles
 - · LCC Analysis & Model
 - Framework for LCC System App
 - Recommendations

Action: Information



3.6.3 Data were collected from 3 types of projects:-

Туре	Project	Respondent (Do	ıta Custodian)
20.00	77	Initial Cost	O&M Costs
Highway	North Klang Valley	Lembaga	PLUS Malaysia
	Expressway (NKVE)	Lebuhraya Malaysia	Berhad
	ELITE Expressway (ELITE)	(LLM) & PLUS	
	779. 25 65 65	Malaysia Berhad	
	GUTHRIE Expressway	Lembaga	PROLINTAS
		Lebuhraya Malaysia	
		& PROLINTAS	
Social Housing	PPRT Kepong Utara	Kementerian	Dewan
	PPRT Salak Selatan	Perumahan &	Bandaraya Kuala
	PPRT Pekan Kepong	Kerajaan Tempatan	Lumpur (DBKL)
Office	Kompleks Parcel E	Putrajaya Holdings	Jabatan Kerja
	Putrajaya	Sdn Bhd (PjH)	Raya (Putrajaya)
	Kompleks Parcel D		
	Putrajaya		
	The Pinnacle Sunway	Sunway Berhad	

Action: Information

3.6.4 Findings:

Project	Cost	Accessible	Available	Current	Reliable		
Highway	Highway						
NKVE	Initial	Form	Project	Actual	Yes		
	0&M	Form	Project	Annual	Yes		
ELITE	Initial	Form	Project	Actual	Yes		
	0&M	Form	Project	Annual	Yes		
GUTHRIE	Initial	Email	Project	Actual	Yes		
	0&M	Email	Project	4 years	Yes		
Social Housing							
PPRT Kepong Utara	Initial	Yes	Component	Actual	Yes		
	0&M	Interview	Project	Estimate	OK		
PPRT Salak Selatan	Initial	Yes	Component	Actual	Yes		
	0&M	Interview	Project	Estimate	OK		
PPRT Pekan Kepong	Initial	Yes	Component	Actual	Yes		
	0&M	Interview	Project	Estimate	OK		
Office							
Parcel E	Initial	No (Web)	Project	Actual	Yes		
	0&M	Form	Project	Annual	Yes		
Parcel D	Initial	No (Web)	Project	Actual	Yes		
	0&M	Form	Project	Annual	Yes		
The Pinnacle	Initial	Form	Element	Actual	Yes		
	0&M	Form	Project	Annual	Yes		

DSK commented that the data collection to be based on "component" rather than on overall project cost.

Action: Information



3.6.5 LCC Analysis (for full details including specifications and expected life span of each project, please refer to Appendix 1)

(i) LCC components for highway

Item	Description	Initial cost	Operation cost	Maintenance cost
a.	For rigid pavement with ground improvement	40%	36%	24%
b.	Flexible pavement with major ground improvement	37%	38%	25%
C.	Flexible pavement with minor ground improvement	40%	36%	24%

(ii) LCC component for social housing

Item	Description	Initial cost	Operation	Maintenance
	and the state of t		cost	cost
a.	PPRT	57%	43%	
	(Conventional RC)			

(iii) LCC component for office building

Item	Description	Initial cost	Operation cost	Mainte- nance cost	Refurbish -ment cost
a.	GBI-rated office	52%	45%	2%	1%
b.	Normal RC Office	29%	56%	14%	1%
C.	RC Office with Facing Brick	33%	55%	11%	1%

Action: Information



- 3.6.6 MCM highlighted the obstacles they had faced in gathering the data:
 - Lack of understanding and awareness on the significant importance of LCC in managing assets among the senior management of organisations.
 - b) No clear policy in the implementation of LCC at the strategic level. Hence, no dedicated personnel or officer to perform the tasks.
 - c) No proper database to store and upkeep the cost data specifically operation and maintenance costs.
 - d) Bureaucracy especially in government departments which eventually prolong the data collection process. Furthermore, officers keep on changing.
 - e) Confidentiality issue that is considered as a major hindrance for any research or study to move forward thus dampen the expansion of knowledge.

Action: Information

3.6.7 Proposed framework for LCC system application

MCM proposed the LCC system application to be:

- a) Open source platform
- b) Desktop version and mobile app (optional)
- c) Server within existing infrastructure (CIDB)

Action: IO and OIC

3.6.8 Recommendations

- a) The LCC data collection is very much possible with a greater awareness and commitment from various higher authorities.
- b) CIDB shall embark and champion on the preparation of National LCC Guide.
- c) CIDB to pursue the more advance LCC studies at elemental and component levels.
- d) CIDB shall regulate the LCC requirements to be submitted by the FM and maintenance contractors as part of their license renewal as this will further enrich the LCC data for the construction industry in Malaysia.
- e) CIDB to spearhead the possibility of enacting an Act of Parliament that requires the assets of certain value to have



LCC database. This augurs well with the sustainability aim of the construction industry in Malaysia.

Action: IO and OIC

- 3.6.9 Comments and feedback from committee members on the LCC presentation and way forward:
 - a) The data collected can be used to help in decision making. CIDB plans to publish these findings, however data from more projects are required.
 - b) To look at what government is doing with regards to gathering data for maintenance work (central database system) and how we at private sector can improve it.
 - c) For office buildings:
 - to partner with private developers for data gathering
 - to establish general category for office buildings
 - d) To create awareness by giving broadbase information on LCC data gathering and how it needs to be done so that companies would be willing to share their data
 - e) With regards to data publication, to start with LCC of components first (instead of project) as it is more realistic and the committee feel that companies would be more willing to disclose/share components cost than the project costs

Action: IO and OIC

3.6.10 OIC informed that the study had been presented to TC-LCC and had been endorsed. DSK thanked MCM for completing the study. DSK suggested CIDB to establish a roadmap on what need to be done.

Action: IO and OIC

3.6.11 With regards to the recommendations put forward by MCM (refer item 3.6.8), this committee (IWG12) accepts recommendations (a), (b), (c) but to keep-in-view recommendations (d) regulate LCC requirements and (e) to have an Act of Parliament.

Action: IO and OIC



3.7 KPI 81 - Labour and Plant Constant

3.7.1 IO suggested to invite KH Alliance to present their interim findings at the next IWG12 meeting.

Action: IO and OIC

4. PUBLICATION - COST BOOK

- 4.1 CIDB has already liaised with Rawlinson Australia and is currently waiting for their technical and financial proposal. OIC was requested to give a dateline to Rawlinson to submit these by 31 Jan 2018.
- 4.2 CIDB will provide all the data and information to be included in the cost book while Rawlinson will be responsible in providing their template, editing, desktop publishing, printing and binding works.

Action: IO and OIC



5. ADJOURNMENT OF MEETING

The next meeting will be held on 25 April 2018. Dato' Sri Kandan once again thanked all committee members and requested that the minutes to be circulated to IWG members prior to the next meeting.

Prepared by;

Sr Nazir Muhamad Nor

Officer In Charge (OIC)

CITP IWG12

Date: 5/1/2018

Reviewed by;

Dato' Sr Srikandan Kanagainthiram

Chairman CITP IWG12

Date:

