

**Construction Industry Council**

**Committee on Environment, Innovation and Technology**

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Meeting No. 001/15 of the Committee on Environment, Innovation and Technology for 2015 was held on 15 January 2015 (Thursday) at 2:30 pm at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wanchai, Hong Kong.

Present:	Kevin POOLE	(KP)	Chairman
	Andrew CHAN	(AKYC)	
	Paul CHONG	(PC)	
	Reuben CHU	(RC)	
	Stephen YIM	(SnY)	Housing Department
	Dick YU	(DY)	Buildings Department
	Robert LAM	(RL)	
	Christopher LEUNG	(KYL)	
	Thomas NG	(TN)	The University of Hong Kong
	Sam-choi CHAN	(SCC)	Construction Site Workers General Union
	Ringo YU	(RY)	Hong Kong Construction Association
	Ping-wai CHOW	(PWC)	Hong Kong Construction Industry Employees General Union
	Chung-leung WONG	(CLWo)	Development Bureau
	Joe FONG	(JF)	Environmental Protection Department
In Attendance:	Ka-chun MAK	(KMK)	Architectural Services Department
	Harry LAI	(HLA)	Electrical and Mechanical Services Department
	Albert KWAN	(AK)	Hong Kong University
	Vanessa AU	(VA)	Environmental Protection Department
	Victor WONG	(VWg)	Senior Manager – Council Services
	Ivan KO	(IK)	Senior Manager – Construction Trade Testing
	Julian LEE	(JL)	Manager – Research
	Stella WONG	(SaW)	Senior Officer – Council Services
Apologies:	Stephen LAI	(SLI)	
	Wai-wah HO	(WWH)	Chair of TF-RSS
	Simon WONG	(SW)	Chair of TF-RFID

**PROGRESS REPORT**

**Action**

**1.1 Research on River Sand Substitutes for Concrete Production and Cement Sand Mortar Production (Phase Two)**

Members received a presentation by AK on Paper CIC/EIT/P/001/15 with key findings highlighted as below:

- All tests on concrete, mortar, crashed waste glass, and recycled concrete aggregate had been completed.
- Details of test results were included in Annex B of the Paper.
- The revised “Recommended Specifications for Aggregates for Mortar” had been completed and would be circulated to stakeholders for a second round of consultation before finalisation.

The following suggestions were received from the members:

- Relevant workers trade unions should be invited to participate in the pilot testing of plastering, which was expected to be conducted in February, and get familiar with the properties of manufactured sand. **AK**
- Final report needed to be submitted to task force for comment. **AK**

**1.2 Emission Control for Non-Road Mobile Machinery**

Members received a presentation by VA on the proposed regulation on emission control for non-road mobile machinery (NRMM).

The following items were highlighted:

- Consultation of the proposal was conducted between 2010 and 2011. Support on legislative control to improve HK’s air quality was obtained from various parties.
- The proposal covered both the regulated machines and non-road vehicles in areas including airport’s restricted area, port facilities, construction sites, designated waste disposal facilities, and specified processes.
- The new regulation would be made under the APCO (Cap. 311) and the tentative effective date would be 1 April 2015.
- NRMMs under the aforesaid control scope would need to have either: (1) approval for emission compliance OR (2) exemption for existing NRMM or non-compliance.
- For any material modification which might affect the emission level of machinery, application through EPD would be

required.

- EPD would carry out site inspections to enforce the regulation.
- Further details could be found on EPD's website.

### **1.3 Confirmation of Progress Report of Previous Meeting**

Members took note of Paper CIC/EIT/R/004/14 and confirmed the progress report of the last meeting held on Thursday, 30 October 2014 at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wanchai, Hong Kong.

### **1.4 Matters Arising from Previous Meeting**

A new proposal on overall strategy for management and reduction of construction waste in Hong Kong was drafted (see item 1.7).

### **1.5 Progress Update on the Implementation of Carbon Labelling Scheme for Construction Products**

Members received a presentation by JL on the progress update of carbon labeling scheme. The following items were highlighted:

- Ten new carbon intensive construction materials were added to the scheme namely precast concrete, stainless steel, galvanised steel, brick and block, cast iron, ready-mixed concrete, timber products, aggregate, gypsum board, and asphalt.
- A series of trainings were organised and about 400 people received training on the awareness and auditor courses.
- A number of applications on rebar / structural steel and ready-mixed concrete had been received.
- Lobbying was carried out with various project clients and strong interest was obtained.
- Liaison with both local and overseas construction materials suppliers would keep on going to promote the scheme further and more incentive would be needed for wider adoption.

### **1.6 Publication of Hong Kong Construction Industry Performance Report for 2013**

Members took note and endorsed Paper CIC/EIT/P/003/15.

The following major suggestions were received from members for future publications:

- The retention rate of construction course graduates should cover wider disciplines to include more data (page C156).
- Definition should be added for public and private sectors in the industrial accident rate chart (page C180).
- More publicity should be done to further promote the use of these KPI figures, especially the set of newly added environmental KPIs so we could get more feedback on the presentation format of these figures.
- Other minor adjustments included the axis labeling of the consumption of resources and energy chart (page C188) and figures in the fatal accident rate chart (page C181)

#### 1.7 **Research and Survey on the C&D Waste in Hong Kong**

Members took note of Paper CIC/EIT/P/004/15 with the following highlights:

- The aim of the survey was to collect data on C&D waste composition for better strategic planning in construction waste management
- Research showed that C&D waste accounted for 25% of landfill in 2012.
- Two surveying methods were proposed for consideration namely the upstream measurement and downstream measurement.

After much deliberation, Chairman recommended the committee to seek support from EPD and set up a task force to manage the process of survey. Members could propose suitable task force members for discussion in the next meeting.

**CIC  
Secretariat**

#### 1.8 **Assignment Brief for BIM Standards to Facilitate the Submission of GBP for Statutory Authorities (Phase One)**

Further to the endorsement obtained from last meeting, an assignment brief for the topic was drafted and circulated to various parties including HA, Planning Department, ASD, and Lands Department. IK presented a tabled document which further incorporated comments received from them.

Action

The following items were highlighted:

- The ultimate deliverable of the consultancy was to establish a set of specifications, steps, and methods to achieve a semi-automatic or automatic computational solution but not to deliver a software, plug-in, or programmed solution.
- The checking scope of the deliverable included the fundamental standards as per the current practice notes, gross floor area, means of escape, sanitary fitment provision, fire compartment, and fire resisting construction.

Further comments and suggestions were received and they would be sent to the secretariat for incorporation via email and discussion in the next meeting.

**IK**

**1.9 BIM 2015 Year Plan**

IK presented the BIM 2015 Year Plan in Paper CIC/EIT/P/006/15. The following items were highlighted:

- The theme for Year 2015 would be “BIM Training, Intelligence Sharing, and Recognition of BIM Professional’s Qualification”.
- Activities / events proposed focused in 4 categories including: (1) implementation of industry-wide training platform, (2) facilitation of BIM professional recognition and good practice, (3) establishing local standards, and (4) strengthening regional and international collaboration.

Members had no further comments on the Paper.

**1.10 Any Other Business**

Nil

**1.11 Tentative Date of Next Meeting**

30 April 2015 at 2:30 pm at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wanchai, Hong Kong.

**All to note**

There being no further business, the meeting was adjourned at 4:30 pm