Construction Industry Council

Committee on Environment and Technology

Meeting No. 002/13 of the Committee on Environment and Technology for 2013 was held on 18 April 2013 (Thursday) at 2:30 pm at CIC Headquarters, 15/F, Allied Kajima Building, 138 Gloucester Road, Wanchai, Hong Kong.

Summary notes of the Committee on Environment and Technology (Com-ENT) Meeting No.002/13:

Agenda Item	Paper	Major Resolutions/ Progress Highlights
2.1.	CIC/ENT/R/001/13	Introduction and Confirmation of the Progress Report of the Previous Meeting - Mr. Kevin POOLE was nominated by the Council as Chairman of the Committee of Environment and Technology due to resignation of Mr. YU Wai-wai, the immediate past Chairman, from the Chairmanship. The following new Members joined the Committee: i. Mr. Anthony CHAN ii. Prof. WONG Sze-chun iii. Ir Reuben CHU iv. Mr. Robert LAM Members of the Com-ENT confirmed the Progress Report CIC/ENT/R/005/12 of the meeting held on 22 November 2012.
2.2.		Matters Arising from the Previous Meeting

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		 2.2.1 Construction Product Certification - This agenda item would be discussed at the next Com-ENT meeting in view of numbers of agenda items in this Com-ENT meeting. 2.2.2 Research on River Sand Substitutes for Concrete Production and Cement Sand Mortar Production (Phase One) - The Council has approved the Study Report and agreed to publish the Study Report. The Report was available in the CIC's website for download. 2.2.5 Working Group on Strategic Implementation of Prefabrication and Modular Construction (Phase One) - The Council has approved the Study Report and the Study Report was for internal reference only. Other matters arising were covered by the Agenda Items.
2.3.	CIC/ENT/P/010/13. (for discussion)	Report of the Hong Kong Construction Association – Hong Kong's Construction Industry Vision 2020 - Mr. Ringo YU represented Environment Committee of Hong Kong Construction Association (HKCA) to deliver the presentation on the section of Environment and Natural Resources of the HKCA's report of Hong Kong's Construction Industry Vision 2020. After much deliberation, Members' major views were summarised as follows: 1. The report was a good start to set out initiatives and benchmark for Hong Kong construction industry. Members took note that the CIC is taking similar actions as the initiatives proposed in the Report in general. 2. Construction Innovation, frontline welfare and health care, recycling of construction materials, reduction of the use and recycling of natural resources could be included in the Report. 3. HKCA expressed that the targets set forth was a matter of wishes and no vigorous analysis had been conducted in relation to the achievability of the targets set out in the Report.

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		4. HKCA advised that, unless specified otherwise, the baseline of the targets would generally base on the figures of the current year.5. No additional items were suggested by Com-ENT with respect to the proposed initiatives stated in the Report.
2.4.	CIC/ENT/P/011/13 (for discussion)	 Research on River Sand Substitutes for Concrete Production and Cement Sand Mortar Production (Phase Two) - The proposed objectives for the Phase Two Study were: To draft a local construction standard on aggregates for mortar based on existing standards in Europe, UK and China; To study the effects of fines content on concrete to determine the optimum and allowable fines contents so as to draft general guidelines for fine aggregate for concrete; To study the effects of fines content on various types of mortar to determine the optimum and allowable fines contents so as to draft a set of specifications for aggregate for different types of mortar and a set of requirements for classification of manufactured sand; To study the feasibility of crushing and processing waste glass for recycling as aggregate for mortar; and To study the feasibility of crushing and processing old concrete for recycling as aggregate for concrete and mortar. Members endorsed: the Phase Two Research Proposal; the commissioning of HKU to conduct the Phase Two Research through single tender; and the proposed budget as stipulated in the discussion paper.

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2.5.	CIC/ENT/P/012/13 (for discussion)	Carbon Labelling Scheme Implementation Proposal - Mr. Conrad WONG, Chairman of Hong Kong Green Building Council (HKGBC), and Prof. Thomas NG of The University of Hong Kong (HKU) explained the implementation proposal as follows.
		 The proposed implementation scheme would be executed by the concerted efforts of the CIC, HKGBC, Hong Kong Accreditation Service and the University of Hong Kong; The proposed scheme consisted of training, auditing and certification processes; The CIC's Carbon Labelling Scheme was proposed to integrate with HKGBC's Green Building Product Labelling Scheme and Hong Kong BEAM Plus.
		Mr. WONG elaborated that the CIC and HKGBC would launch "Carbon Label" and "Green Product Label" respectively.
		Some Members still concerned that the industry practitioners may be confused by these two schemes operating by two organisations because the nature of the certification was quite similar. Mr. WONG and the Secretariat explained that it was proposed to commence this implementation scheme in third quarter of 2013. The issuance of both labels by one organisation may result in lengthy discussion over the intelligence property rights which would severely delay the launch time.
		After much deliberation, Members endorsed the implementation proposal and recommended the Secretariat to keep track on the industry's feedback on the implementation scheme.
2.6.	CIC/ENT/P/013/13 (for discussion)	Hong Kong Construction Industry Performance Report for 2001 - 2011 - As directed by the Com-ENT to have independent check on the KPI worked out by the Secretariat, Rider Levett Bucknall (RLB) Limited had been engaged to verify the calculation of the KPI.

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		With Members' comments on a few terminologies, the Secretariat would update the reports accordingly.
2.7.	CIC/ENT/P/014/13 (for discussion)	Strategic Implementation of Prefabrication and Modular Construction (Phase Two) - Following the opinions set out in the Phase One Study Report, in the last Com-ENT meeting, the Com-ENT decided to carry out in-depth studies. The study objective of the proposed Phase Two includes: i. To study the feasibility of establishing prefabrication yard in Hong Kong and the criteria of its establishment; ii. To study the opportunities to improve construction manpower situation through wider adoption of prefabrication construction by establishing prefabrication yard in Hong Kong. After much deliberation, in view of some new Members participated in the Com-ENT for the first time and did not fully understand the rationale of the recommendations in the Phase One Study Report and the decision on the scope of further studies at the last Com-ENT meeting. As such, Chairman suggested the Secretariat briefing on the Phase One Study Report and the conclusion made at the last Com-ENT meeting, and further discussing this matter at the next meeting.
2.8.	CIC/ENT/P/015/13	Local Construction Standard - Migration from British Standards to Eurocodes - The
	(for discussion)	Secretariat recapped that some of the British Standards relating to structural design were withdrawn in March 2010. The migration to Eurocodes is being undergone. The full adoption of Eurocodes in the design of civil engineering structures is targeted at 2015. Accordingly, DevB invited the CIC to comment on the updated/ new parts of design guiding documents.

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		DevB explained that these design guiding documents were drafted in accordance with the Eurocodes, whereas the major changes were updates made to the parameters and material properties. The aforesaid design guiding documents on Eurocodes were circulated to Members on 1st March 2013 through email and no comment was received before and during the meeting.
2.9.	CIC/ENT/P/016/13	Working Group on Roadmap for BIM Implementation - The Secretariat prepared a draft report
2.9.	CIC/ENT/P/017/13 CIC/ENT/P/018/13 (for discussion)	including the topics of driving force and challenges for the adoption, benefits, strategic implementation roadmap, and suggested 8 key areas of initiatives. Working Group Members generally viewed the draft report well-documented and comprehensive. Some revision was necessary in relation to the additional comments made by Working Group Members. The revised draft report would then be circulated to Working Group Members for their further comment soon. The Working Group was finalising the roadmap for BIM implementation in which two of the key actions were:
		 a. Set up a new task group to work out industry standard/ specification/ common practice/ reference document to let the industry to follow; b. To promote BIM to industry stakeholders who are observers or beginners for the adoption of BIM. With respect to Action (a) above, a new task group has been formed and the first meeting has been held on 17 April 2013.

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		With respect to Action (b) above, it was proposed to have a new publication as set out in Paper CIC/ENT/P/018/13 to disseminate the news about BIM and to promote BIM, as well as the updated working progress of the CIC on BIM. Members endorsed the proposed publication subject to the following amendments: 1. Change the publication name from "Call to Action" to "Fact Sheet". 2. Carry out copy-writing before publishing.
2.10.	CIC/ENT/P/019/13 (for information)	Task Force on Schematic Design for Application for RFID, GPS and Sensor Technology in Monitoring the Movement of Construction Waste - Through the first Task Force meeting and subsequent small group discussions, the industry's views and needs were ascertained. Members agreed that the focus of this Task Force should be "how" these readily available technologies to be adopted easily by the construction industry. For the sake of easy implementation, from the technical point of view, the followings were
		 To work out one standard/ system specification of the proposed solution for whole construction industry in Hong Kong aiming to avoid one truck installing more than one system; While active RIFD has the best performance, the use of active RFID might result in monopoly in the choice of active RFID tag and receiver; To adopt semi-passive RFID tag (rather than active RFID tag) aiming to avoid proprietary solution and allow more solution providers entering the market. However, some technical issues might need to be resolved which could be revealed during the site trial;

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		4. To align standard/system specification with current key users such as Hong Kong Housing Authority.
2.11.		Any Other Business - CIC Conference 2013 themed "Construction Innovation: Technology and Productivity" was scheduled for 29 November 2013. Local and overseas professionals will be invited to share their experience and views in enhancing productivity through the latest technology and new construction method. Building Information Modelling (BIM) is a key topic of the conference. Topics on radio-frequency identification (RFID), prefabrication and modular construction, and their cross-over with BIM will also feature in the conference programme.