

## **Tender preparation and building of bamboo façade mock-ups**

In order to start the construction of sub-structures of the Dabao project in October 2013, the Team has to complete the tender package by September. After a kickoff meeting on July 2, the Team was dedicated to finish the task on time by working almost every day from 10am to 6pm. Their task was to draft a tender contract with Bills of Quantity (BoQ) and to draw a set of tender drawings including structural, electrical, drainage, site formation, sub-structure and lightning protection drawings. The Team was divided into three groups for easy management of the work: the structural group, the site formation and miscellaneous group and the contract document group. Manson Lee was responsible to look after the whole project team with Steve Ho and Brian Kong; Hung Ka Shing and Tony Wu in charge of the site formation and miscellaneous group, the structural group and the contract document group respectively. Other core team members are Chai Tsz Ho, Wong Chi Fai, Stan Chik, Liu Kin Kwan and Tsui Man Cheuk with the assistance of Archer Zheng, Creo Xu, Byron Chen, Eldon Lin, Tim Hu, Jason Li, Samson Pung and Jacky Wong from time to time.

With the devoted hard work of each member and endless meetings, the Team managed to complete the 2<sup>nd</sup> draft of the tender package for discussion and finalization by the end of August.

During tender preparation, in response to the Architect's request, the Team (with the help from the technical staff of the Department) spent a few days to build up three bamboo façade mock-up panels for the Architect to evaluate her design. The mock-up panels were satisfactory although some mechanism has to be installed to prevent the bamboo tubes from falling apart due to shrinkage.



Figure 1 Prof. Nicolas Yeung encourages the students during their working day.



Figure 2 Design meeting with the Architect.



Figure 3 Steve Ho is working hard to cut the bamboo tube into half for easy transportation.



Figure 4 Resulting bamboo façade units after days of hard work.