

Technical Visit to CEDD Contract No. CV/2007/03 Development at Anderson Road Site Formation & Infrastructure Works

By Ms Patricia Poon

On 23 February 2013, AGS (HK) organised a technical visit to CEDD Contract No. CV/2007/03 Development at Anderson Road Site Formation & Infrastructure Works. This CEDD project aims to address long-term public housing demand. The site area between Anderson Road and Sau Mau Ping Road has been earmarked for the development of public housing, schools, associated government institutions and community facilities. The Contract is being supervised by Ove Arup & Partners Hong Kong Ltd and constructed by China State Construction Engineering (Hong Kong) Ltd.

The site visit began with an informative presentation by Mr Michael Wright of Arup who provided an overview of the project. The main elements of the project are the site formation to create about 20 hectares of platform area for mixed development use and the related civil infrastructure. Major geotechnical works include soil and rock slope formation, soil nailing, rock blasting & splitting, reinforced earth (RE) retaining walls, reinforced concrete (RC) retaining walls and bored pile walls. A wide variety of civil infrastructure works are also included in this project including road works and junction improvement works, construction of vehicular bridges, footbridges and pedestrian subways, construction of drainage systems including an underground stormwater storage tank and landscape works. Extensive environmental impact mitigation measures and environmental monitoring and audit are required to ensure minimal disturbance to the neighboring residential areas.

After the presentation, visitors were guided by Arup and China State to view the works from a high vantage point overseeing the site. The hosts explained the safety measures for the blasting including blasting cages covered by the blasting mats and screens to reduce the noise and dust generated. Hydraulic breakers mounted on backhoes were used to break up oversize rocks into permissible size for disposal. Good quality rock suitable for use as aggregate is being sent to the adjacent Anderson Road Quarry Site for processing whilst other spoil is being disposed via barges at Kai Tak. Visitors were also able to view other construction activities including retaining walls, slopeworks and civil infrastructure works.

Visitors gained an understanding of the construction methods and plant for a large-scale site formation and infrastructure project. Attendees also gained insights into the project planning and design. For example, the platform area was maximised by forming steep soil cut slopes with soil nails, rock cuttings and RE retaining walls. The final design solutions and chosen methods of construction required consideration to maximise reuse of on-site materials (eg. RE walls) and the proximity and potential impact to existing sensitive slopes.

Kind thanks go to CEDD, Arup and China State for allowing AGS(HK) to visit their project and for providing such a valuable learning experience to all the attendees.



Mr David Sein of AGS (HK) presenting souvenirs to Arup and China State



Group Photo taken at Anderson Road Site



Attendees enjoying the presentation by Michael Wright (Arup)



Viewing Eastern Side of the Site



Viewing Western Side of the Site