

Islands District Council

**Works and Services of Civil Engineering and Development Department in
Islands District**

1. Background

The Director of Civil Engineering and Development will brief Islands District Council (IDC) on 16 February 2015 on the works of Civil Engineering Development and Department (CEDD) and its major projects in Islands District, as well as listen to members' views about the works of CEDD.

2. Organization, Works and Service Areas

- 2.1 CEDD was established on 1 July 2004 after the merging of the former Civil Engineering Department and the former Territory Development Department. CEDD is one of the five works departments under Development Bureau.
- 2.2 The department has a headquarters, 2 functional offices (the Civil Engineering Office and the Geotechnical Engineering Office) and 4 regional development offices (the Hong Kong Island and Islands Development Office, the Kowloon Development Office, the New Territories East Development Office and the New Territories West Development Office).
- 2.3 Our works include developing new towns and strategic development areas to meet Hong Kong's development needs, and to implement public works projects such as port development, land formation, landslip prevention and mitigation and environmental improvement. Our four major areas of service are:
- Provision of land and infrastructure
 - Port and marine services
 - Geotechnical engineering services
 - Environment and sustainability services

3. Major Projects and Progress

- 3.1 CEDD's major projects within Islands District are enclosed in the Annex and listed below:

(a) **Tung Chung New Town Extension Study**

Stage 3 Public Engagement for engaging the public on the draft Recommended Outline Development Plan (RODP) was accomplished on 31 October 2014. We widely collected views of the Tung Chung Community and relevant stakeholders, including the Tung Chung Rural Committee, Islands District Council, Town Planning Board, Panel on Development of the Legislative Council and green groups. Roving exhibitions were arranged throughout the public engagement period and a Public Forum was held on 11 October 2014. The public generally support the further development of Tung Chung New Town and urged for early implementation. Public views and aspirations collected during the Stage 3 PE are being taken into consideration in refining the draft RODPs.

Meanwhile, a statutory Environmental Impact Assessment study is being conducted to assess the environmental impacts including ecological, air, water and noise arising from the proposed Tung Chung New Town Extension. The Study is expected for completion in end 2015 and following that the detailed design work will commence immediately. The first population intake is planned to take place around 2023 at the earliest.

(b) **Main Engineering Infrastructure in association with the Proposed Developments at Area 56 in Tung Chung**

The project comprises the construction of a new carriageway, footpaths, a cycle track and ancillary works including drainage, sewerage, water supply system and landscaping works, to support the development in that area. The construction works are in progress and scheduled for completion in mid 2016.

(c) **Universal Accessibility Programme**

The project aims to provide lift facilities for 52 existing public walkways of Hong Kong Island, Kowloon and New Territories to bring further convenience to the public. The following three public footbridges/subways are in Islands district :

1. Footbridge across Yu Tung Road and Chung Yan Road (Structure No. NF328);
2. Footbridge across Yu Tung Road near Tung Chung Ha Ling Pei (Structure No. NF332); and
3. Pedestrian subway across Shun Tung Road near Lantau North Divisional Police Station (Structure No. NS230)

CEDD reported the result of the technical feasibility study and relevant preliminary schemes of the project to the Traffic and Transport Committee of Islands District Council on 20 January 2014. The proposals were supported by the Committee. Detailed design of the project is in progress. Construction works are scheduled to commence in end 2015 for completion in end 2017.

(d) **Planning, Engineering and Architectural Study for Topside Development at Hong Kong Boundary Crossing Facilities Island of Hong Kong-Zhuhai-Macao Bridge**

With its proximity to the Hong Kong International Airport, the 130-hectare Hong Kong Boundary Crossing Facilities island will serve as a gateway for Hong Kong and the western Pearl River Delta with potential for developing a 'bridgehead economy'. With appropriate developments, not only can the unique geographical advantage of the island be fully capitalised on, but also synergy can be created together with the airport, AsiaWorld-Expo and other tourist and business destinations on Lantau, providing job opportunities for Hong Kong as a whole.

The study is co-managed by the Civil Engineering and Development Department and the Planning Department. It will take about 25 months to complete. The consultant is required to ascertain the feasibility and optimise the scope and scale of the proposed commercial development and the development of other economic activities through utilisation of topside and underground space on the island, recommend the overall development concept including the market positioning and operation strategy, and undertake environmental and technical assessments.

The funding application was approved by the Finance Committee on 16 January 2015. The study commenced on 23 January 2015 for completion in

February 2017.

(e) **Strategic studies for artificial islands in the central waters**

The project scope comprises strategic studies on building artificial islands in the Central Waters covering preliminary engineering feasibility and infrastructure study including broad reclamation extent and transport links, preliminary planning proposals including possible land uses, port operations and marine traffic and safety study, strategic environmental assessment, fisheries impact assessment, consultation exercises with relevant stakeholders and associated site investigation works including supervision

The item was withdrawn at the PWSC meeting on 26.11.2014. The implementation programme of this item is under review.

(f) **Improvement works at Mui Wo**

In an effort to rejuvenate the local community and enhance road safety in Mui Wo, CEDD proposed to implement the recommendations of Improvement Works for Mui Wo Facelift - Feasibility Study in phases. Phase 1 works commenced in July 2014 and scheduled for completion in late 2016. Detailed design of Improvement Works at Mui Wo, Phase 2 Stage 1 is in progress.

(g) **Improvement Works at Tai O**

The government plans to carry out improvement works at Tai O with a view to attracting more citizens and visitors in order to boost the local economy. Detailed design of the improvement works commenced in December 2009. Construction works will be carried out in phases

The Phase 1 of improvement works at Tai O commenced in August 2010. The works comprised construction of a riverwall at Yat Chung and associated drainage and sewerage improvement works, improvement to the information and directional signage within the inner-core area of Tai O, and upgrading of the temple garden in front of Kwai Tai Temple. The Phase 1 improvement works were substantially completed in end-March 2013.

The Phase 2 Stage 1 comprises construction of an entrance plaza, a public

transport terminus and a public car park. The proposed works aim at improving the traffic circulation of different types of road users at the concerned area, increasing the car parking space and providing an entrance plaza so as to enhance the tourist handling capacity at Tai O. In addition, a designated cycle parking area will be provided to avoid illegal parking of bicycles which can improve the streetscape. The Phase 2 Stage 1 works had been consulted IDC in December 2014 and gained support from the IDC members. Gazettal procedure for the project will be commenced soon.

The remaining improvement works will seek to bring about new or improved elements to improve the local economy and connectivity for sustaining the eco-tourism in Tai O. The remaining works comprise construction of footbridges connecting Po Chue Tam to Sun Ki and Yim Tin to Sun Ki, construction of an event space for community and cultural events at Yim Tin and associated coach parking area, and upgrading of the temple garden in front of Yeung Hau Temple. The remaining improvement works will be carried out in phases and the detailed design is underway.

(h) Mountain Bike Trail Networks in South Lantau

For early enjoyment by the public, we are reviewing the feasibility of implementing in stages the recommended scheme to improve and expand the existing mountain bike trails (MBTs) under the feasibility study in respect of Mountain Bike Trail Networks in South Lantau. The recommended scheme comprises the local improvements to some existing MBTs in South Lantau, construction of new MBTs to expand the existing network, two gathering places at Chi Ma Wan Western Trailhead and Mui Wo – Pui O MBT Trailhead, a new training ground near Lai Chi Yuen Tsuen and provision of ancillary measures such as signage, distance posts and railings.

(i) Planning and Engineering Study on Future Land Use at Ex-Lamma Quarry Area at Sok Kwu Wan, Lamma Island – Feasibility Study

The study includes the formulation of various land use options for the ex-Lamma Quarry at Sok Kwu Wan in Lamma Island, and the related planning and engineering study as well as environmental impact assessment, in order to cater for future development of Hong Kong. The Study Site comprises 20 hectares of platform area, 1 kilometre of shoreline and a 5-hectare man-made lake.

The Stage 2 Community Engagement comprising focus group meetings, briefing sessions and public forum were held from March to May 2014. A briefing to LegCo Panel on Development was also held on 7 July 2014. The public views received from Stage 2 Community Engagement will be taken into account in refining the recommended development proposals before the Study is finalised and the final Recommended Outline Development Plan is drawn up.

We will undertake a detailed engineering design consultancy upon the completion of this Study. The required site formation works, road works and infrastructure provisions will follow after the completion of the engineering study.

(j) **Construction of Cycle Parking near Yung Shue Wan Ferry Pier, Lamma Island**

The project scope comprises construction of a cycle parking area (CPA) of 350m² approximately. Upon completion, the CPA provides about 300 parking spaces for bicycles.

Piling works have been completed. Contruction of structural steel platform was in progress. The anticipated completion date is mid-2015.

(k) **Greening Master Plan (GMP)s of the South West New Territories (SWNT) – Consultancy Study & Site Investigation**

The scope of works includes formulation of the GMPs of SWNT (including Islands, Tsuen Wan and Kwai Tsing) and the detailed design and necessary site investigation for the greening measures.

The detailed design is in progress and it is anticipated that the design would be completed in mid-2015.

(l) **Dredging, management and capping of contaminated sediment disposal facility to the south of The Brothers**

The project comprises the formation of 2 sediment disposal pits at the seabed to the south of The Brothers for the disposal of about 4 million cubic metres sediment; on-site control of mud disposal activities; and implementation of an Environmental Monitoring and Audit (EM&A) programme.

The first mud pit was commissioned to receive contaminated sediment in late August 2013 and was filled up in end November 2014 when capping commenced. The dredging of the second mud pit was completed and contaminated sediment disposal commenced thereat in end November 2014. All the disposal and capping works are expected to be completed in end 2016 whereas the EM&A will continue until end 2018.

(m) **Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel**

The project comprises mainly dredging the sea-bed of Kwai Tsing Container Basin and portions of the Northern and Western Fairways (a total area of 428 ha) to a depth of 17.5 metres (m) below Chart Datum.

The works commenced in August 2013 and is expected to be completed by February 2016.

(n) **Landslip Prevention and Mitigation Programme (LPMitP)**

The LPMit works for 56 nos. man-made slopes and 3 nos. natural terrain were completed.

The LPMit works for 9 man-made slopes in Islands District are in progress.

The details are:

1. 3 Slope Nos. 9SE-C/C57、9SE-C/C86 and 9SE-C/CR25 at Tei Tong Tsai, Lantau Island;
2. 1 Slope No. 10SW-D/F11 at Hei Ling Chau Treatment Centre;
3. 1 Slope No. 13NE-A/C49 at Ma Po Ping Road, Lantau Island;
4. 1 Slope No. 13NE-B/CR155 at Catchwater near Tong Fuk and Butterfly Creat, South Lantau Island;
5. 1 Slope No. 13NW-B/C175 at Tai O Road, Lantau Island;
6. 1 Slope No. 14NE-B/CR203 at Yung Shue Wan Main Street, Lamma Island; and

7. 1 Slope No. 14NW-D/C57 at Tai Kwai Wan San Tsuen, Cheung Chau.

Annex : Major projects of CEDD in Islands District

- a Tung Chung New Town Extension Study
- b Main Engineering Infrastructure in association with the Proposed Developments at Area 56 in Tung Chung
- c Universal Accessibility Programme
- d Planning, Engineering and Architectural Study for Topside Development at Hong Kong Boundary Crossing Facilities Island of Hong Kong-Zhuhai-Macao Bridge
- e Strategic studies for artificial islands in the central waters
- f Improvement works at Mui Wo
- g Improvement Works at Tai O
- h Mountain Bike Trail Networks in South Lantau
- i Planning and Engineering Study on Future Land Use at Ex-Lamma Quarry Area at Sok Kwu Wan, Lamma Island – Feasibility Study
- j Construction of Cycle Parking near Yung Shue Wan Ferry Pier, Lamma Island
- k Greening Master Plan (GMP)s of the South West New Territories (SWNT) – Consultancy Study & Site Investigation
- l Dredging, management and capping of contaminated sediment disposal facility to the south of The Brothers
- m Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel
- n Landslip Prevention and Mitigation Programme (LPMitP)

Civil Engineering and Development Department
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