

## Head 33 — CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

**Controlling officer:** the Director of Civil Engineering and Development will account for expenditure under this Head.

<b>Estimate 2015–16</b> .....	<b>\$2,257.9m</b>
<b>Establishment ceiling 2015–16</b> (notional annual mid-point salary value) representing an estimated 1 764 non-directorate posts as at 31 March 2015 rising by 15 posts to 1 779 posts as at 31 March 2016 .....	<b>\$843.3m</b>
In addition, there will be an estimated 57 directorate posts as at 31 March 2015 and as at 31 March 2016.	
<b>Commitment balance</b> .....	<b>\$2.3m</b>

### Controlling Officer's Report

#### Programmes

<b>Programme (1) Tourism and Recreational Development</b>	This programme contributes to Policy Area 5: Travel and Tourism (Secretary for Commerce and Economic Development).
<b>Programme (2) Port and Marine Facilities</b>	This programme contributes to Policy Area 3: Air and Sea Communications and Logistics Development (Secretary for Transport and Housing) and Policy Area 21: Land and Waterborne Transport (Secretary for Transport and Housing).
<b>Programme (3) Provision of Land and Infrastructure</b>	This programme contributes to Policy Area 18: Recreation, Culture, Amenities and Entertainment Licensing (Secretary for Home Affairs), Policy Area 21: Land and Waterborne Transport (Secretary for Transport and Housing) and Policy Area 22: Buildings, Lands, Planning, Heritage Conservation, Greening and Landscape (Secretary for Development).
<b>Programme (4) Slope Safety and Geotechnical Standards</b>	This programme contributes to Policy Area 24: Water Supply, Drainage and Slope Safety (Secretary for Development).
<b>Programme (5) Greening and Technical Services</b>	This programme contributes to Policy Area 22: Buildings, Lands, Planning, Heritage Conservation, Greening and Landscape (Secretary for Development).
<b>Programme (6) Supervision of Mining, Quarrying and Explosives</b>	This programme contributes to Policy Area 24: Water Supply, Drainage and Slope Safety (Secretary for Development).
<b>Programme (7) Management of Construction and Demolition Materials</b>	This programme contributes to Policy Area 23: Environmental Protection, Conservation, Power and Sustainable Development (Secretary for the Environment).
<b>Programme (8) Advice on Development Proposals</b>	This programme contributes to Policy Area 22: Buildings, Lands, Planning, Heritage Conservation, Greening and Landscape (Secretary for Development).

#### Detail

##### Programme (1): Tourism and Recreational Development

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	<b>2015–16 (Estimate)</b>
Financial provision (\$m)	42.7	43.2	44.9 (+3.9%)	<b>45.4</b> (+1.1%)
				(or +5.1% on 2014–15 Original)

#### *Aim*

2 The aim is to plan, design and implement the supporting engineering works for the tourism and recreational developments in Aberdeen, Lei Yue Mun, to undertake the remaining dredging works for the second berth of Kai Tak Cruise Terminal, as well as to provide engineering input to the development plans of the Ocean Park and Hong Kong Disneyland Resort.

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### *Brief Description*

3 To sustain the development of Hong Kong into a leading regional cruise hub, the Department planned to commence the remaining dredging works for the second berth of the Kai Tak Cruise Terminal in 2015.

4 To strengthen the position of Hong Kong as a premier destination for family visitors in the region, the Department continued to provide engineering advice on the development plans of the Ocean Park and Hong Kong Disneyland Resort, as well as to co-ordinate and liaise with the companies of the two theme parks and relevant parties.

5 To enhance the tourism appeal of the Aberdeen Harbour area and showcase its character as a traditional fishing village, the Department continued to implement the improvement works to promenades of the Aberdeen Harbour and Ap Lei Chau Main Street area.

6 To enhance the tourism appeal of the Lei Yue Mun area and facilitate visitors' access by sea, the Department continued with the planning and design of a public landing facility and related marine works in the Lei Yue Mun area.

7 The key performance measures relating to tourism and recreational development are:

### *Targets*

	Targets <sup>Ψ</sup>	2013 (Actual)	2014 (Actual)	2015 (Plan)
completing construction of the quay deck structure for the second berth for Kai Tak Cruise Terminal development by 2014 (cumulative % completed).....	— (100)	99	100	—
completing construction of improvement works to promenades of the Aberdeen Harbour and Ap Lei Chau Main Street area (cumulative % completed).....	100 (90)	70	98	100

Ψ The targets are expressed in terms of the estimated cumulative progress of the projects or tasks concerned. The targets for 2014 are shown in the brackets.

### *Indicators*

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
value of projects under planning and design (\$m).....	1,357.4	1,428.1	1,428.1
expenditure on works under construction (\$m).....	86.6	44.8	51.9

### *Matters Requiring Special Attention in 2015–16*

8 During 2015–16, the Department will:

- continue the monitoring, co-ordination and liaison work on the development plans of the Ocean Park and Hong Kong Disneyland Resort;
- commence the remaining dredging works for the second berth of Kai Tak Cruise Terminal; and
- continue the planning and detailed design for the proposed public landing facility in Lei Yue Mun.

### **Programme (2): Port and Marine Facilities**

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	2015–16 (Estimate)
Financial provision (\$m)	201.8	204.4	208.5 (+2.0%)	218.2 (+4.7%)
				(or +6.8% on 2014–15 Original)

### *Aim*

9 The aim is to implement the port development programme; design, construct and maintain public marine facilities, including seawalls, mooring areas and piers; maintain adequate water depth in navigation channels in the harbour; and provide advice and services to other departments on matters relating to marine works.

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### *Brief Description*

10 In 2014, the Department continued the planning, design and construction of various projects for improving port and marine facilities. The Department continued the dredging works at the Kwai Tsing Container Basin and its approach channel.

11 The Department maintained 127 kilometres of seawalls, 315 piers including public piers as well as franchised and licensed ferry piers, all fairways, anchorage areas and major tidal river channels.

12 The Department continued to vet submissions for private marine facilities and to provide advice and services to other departments on matters relating to marine works.

13 The key performance measures relating to port and marine facilities are:

#### *Targets*

	Target	2013 (Actual)	2014 (Actual)	2015 (Plan)
inspecting each pier (urban: twice a year; rural: once a year) (%) .....	100	100	100	100
responding to enquiries on information about marine structures and facilities within seven days (%) .....	100	100	100	100

#### *Indicators*

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
expenditure on maintenance works and maintenance dredging (\$m) .....	77.0	77.8	85.0
submissions processed and advice provided .....	2 054	2 055	2 050
length of seawalls maintained (km) .....	124	127	127
piers maintained .....	314	315	318
value of marine facilities and port projects under planning and design (\$m) .....	632.9	579.7	10.4
expenditure on marine facilities and port construction works (\$m) .....	62.2	96.5	145.1

### *Matters Requiring Special Attention in 2015–16*

14 During 2015–16, the Department will continue the dredging works for Kwai Tsing Container Basin and its approach channel.

#### **Programme (3): Provision of Land and Infrastructure**

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	2015–16 (Estimate)
Financial provision (\$m)	358.9	425.1	436.5 (+2.7%)	463.0 (+6.1%)
				(or +8.9% on 2014–15 Original)

#### *Aim*

15 The aim is to provide land and supporting infrastructure for development.

### *Brief Description*

16 The Department is responsible for planning, co-ordinating, programming and implementing the provision of land and supporting infrastructure to accommodate various types of development for the public and private sectors to meet the needs of the community. In 2014, the Department continued the land formation and engineering infrastructure works in Wan Chai Development Phase II. As for Kai Tak Development (KTD), the Department continued the design and construction of engineering infrastructure, including the initiatives on public creatives and the design of Trunk Road T2.

17 To commission a new boundary control point (BCP) at Liantang/Heung Yuen Wai by 2018, the Department commenced the site formation and infrastructure works for the BCP in phases since April 2013.

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18 To enhance the land supply strategy by reclamation outside Victoria Harbour and rock cavern development, the Department completed the technical study for the selection of suitable sites. The Department also substantially completed the cumulative environmental impact assessment for three potential nearshore reclamation sites located at Sunny Bay, Lung Kwu Tan and Siu Ho Wan in the western waters of Hong Kong.

19 The Department continued the site formation and infrastructure works for public housing development in Tuen Mun Area 54 and the development at Anderson Road and for housing development sites adjacent to Lung Ping Road at Tai Wo Ping. To address housing, social, economic and environmental needs in the longer term, the Department commenced the design for the development of Anderson Road Quarry site, ex-Cha Kwo Ling Kaolin Mine Site, the advance works and first stage works of the Kwu Tung North and Fanling North New Development Areas (NDAs) and continued the planning and engineering study on the Hung Shui Kiu NDA. The Department also continued with the integrated planning and engineering studies on the extension of the Tung Chung New Town development and on the future land use at ex-Lamma Quarry Area at Sok Kwu Wan, Lamma Island, the preliminary feasibility study on developing the New Territories North, the planning and engineering studies on Yuen Long South, Kwu Tung South, and Tuen Mun Areas 40 and 46 and the adjoining areas. The Department also commenced the engineering feasibility studies on potential public housing sites in Tseung Kwan O, Pok Fu Lam South and Queen's Hill in Fanling and the investigation of the site formation and infrastructure works for the Initial Public Housing Sites at Kam Tin South.

20 To capitalise on the strategic location of Lok Ma Chau Loop at the boundary district to meet future development needs, the Department commenced the detailed design for the advance works in June 2014 so as to pave way for the development of Lok Ma Chau Loop.

21 The Department opened the new cycle track between Sheung Shui and Ma On Shan to public in March 2014.

22 To cater for the long-term transport need of Tseung Kwan O, the Department continued the detailed design of the Tseung Kwan O – Lam Tin Tunnel and commenced the detailed design of the Cross Bay Link in August 2014.

23 To enhance the waterfront and the accessibility of the public to the waterfront of Yung Shue Wan, the Department continued the planning and preliminary design of the land formation and engineering infrastructure works for phase 2 development at Yung Shue Wan.

24 The Department is pursuing the staged implementation of public infrastructure works and integrated basement to support the West Kowloon Cultural District (WKCD) development.

25 The key performance measures relating to provision of land and infrastructure are:

### Indicators

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
area of land formed (hectares).....	22.0	22.2	26.3
road constructed/widened for development (m) .....	2 613	7 445	3 688
value of land formation and infrastructure projects under planning, design and construction (\$m) .....	101,061.0	139,149.9	168,506.0
expenditure on construction for land formation and infrastructure (\$m).....	3,253.8	4,253.4	4,544.7
no. of land formation and infrastructure projects under planning, design and construction .....	188	190	196

### Matters Requiring Special Attention in 2015–16

26 During 2015–16, the Department will:

- continue to ensure that all land and infrastructure required to meet development targets are delivered on time and cost-effectively;
- continue the construction works of the Wan Chai Development Phase II;
- continue the implementation of KTD, covering the design and construction of engineering infrastructure and the initiatives on public creatives, to facilitate a staged development programme;
- continue the detailed design of Trunk Road T2;
- continue the study on improving the water quality at Kai Tak Approach Channel and Kwun Tong Typhoon Shelter;
- take forward the detailed feasibility study for the Environmentally Friendly Linkage System for Kowloon East;
- continue the staged implementation of public infrastructure works and integrated basement to support the WKCD development in co-ordination with the WKCD Authority and relevant government bureaux and departments;
- continue the design of site formation and infrastructure works for the development of ex-Cha Kwo Ling Kaolin Mine Site;

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- continue with the site formation and infrastructure works in Tuen Mun Area 54 and the development at Anderson Road;
- continue the detailed design for the development of Anderson Road Quarry site;
- continue the design and construction of infrastructure projects, including road and drainage works in Lok Wo Sha, Fo Tan, Sha Tin and Tseung Kwan O;
- continue the construction works for the cycle track network between Tuen Mun and Sheung Shui, and the investigation and design for several sections of the comprehensive cycle track network in the New Territories;
- continue the design of the advance works and first stage works for the Kwu Tung North and Fanling North NDAs;
- continue the design of the advance works for development of Lok Ma Chau Loop;
- continue the planning and engineering study on the Hung Shui Kiu NDA;
- continue the preliminary feasibility study on developing the New Territories North;
- continue the planning and engineering study on the Yuen Long South;
- continue the planning and engineering study for Tuen Mun Areas 40 and 46 and the adjoining areas;
- continue the engineering feasibility study for police facilities in Kong Nga Po;
- commence the preliminary study on the potential land uses of Lam Tei Quarry site and its adjoining areas;
- commence the investigation and detailed design for the development of potential housing and development sites at Lin Cheung Road in Sham Shui Po, Chung Nga Road and Area 9 in Tai Po, Wang Chau in Yuen Long, Queen's Hill and Area 48 in Fanling;
- complete the construction works for the widening of Tin Ha Road and Tan Kwai Tsuen Road in Hung Shui Kiu, Yuen Long;
- continue the detailed design of Tseung Kwan O – Lam Tin Tunnel and Cross Bay Link;
- continue the planning and engineering study on the extension of the Tung Chung New Town development and on the future land use at ex-Lamma Quarry Area at Sok Kwu Wan, Lamma Island;
- continue the detailed design for the remaining improvement works at Tai O;
- continue the construction of phase 1 improvement works and the detailed design for the remaining improvement works at Mui Wo;
- continue the planning and preliminary design of the land formation and engineering infrastructure works for phase 2 development at Yung Shue Wan;
- continue the site formation and infrastructure works for the Liantang/Heung Yuen Wai BCP;
- commence the strategic studies for artificial islands in the central waters;
- commence the planning and engineering study for nearshore reclamation at Sunny Bay;
- commence the planning and engineering study for nearshore reclamation at Lung Kwu Tan;
- continue the preliminary integrated development study on reclamation in association with relocation of Sai Kung Sewage Treatment Works;
- commence the detailed design and site investigation for the widening of Tai Po Road (Sha Tin Section);
- continue the study on the feasibility of topside development on the Hong Kong Boundary Crossing Facilities Island of the Hong Kong-Zhuhai-Macao Bridge;
- continue the study on long-term strategy for cavern development in Hong Kong;
- continue the territory-wide study on underground space development in the urban areas;
- commence the pilot study on underground space development in selected strategic urban areas;
- complete the investigation and commence the design of the site formation and infrastructure works for the Initial Public Housing Sites at Kam Tin South;
- commence the engineering feasibility studies for potential public housing sites; and
- handle matters relating to Lung Mei Beach.

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### Programme (4): Slope Safety and Geotechnical Standards

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	<b>2015–16 (Estimate)</b>
Financial provision (\$m)	325.0	334.9	344.4 (+2.8%)	<b>348.2</b> (+1.1%)
				(or +4.0% on 2014–15 Original)

#### *Aim*

27 The aim is to exercise geotechnical control on private and public developments, register slopes, implement the Landslip Prevention and Mitigation Programme (LPMitP), provide landslide emergency service, investigate serious landslides, set geotechnical standards, undertake public education and advise private slope owners on slope safety.

#### *Brief Description*

28 The checking of geotechnical aspects of building and infrastructure developments continues to play a key role in reducing landslide risk. With a number of tunnel projects in progress, the Department has been providing specialised geotechnical input in the planning, investigation, design, construction and geotechnical risk management.

29 The Department continued the LPMitP to upgrade sub-standard government man-made slopes, mitigate landslide hazard arising from natural hillside catchments, and conduct safety screening for private man-made slopes.

30 The Department continued to maintain an automatic raingauge network to support the operation of the landslip warning system. It also provided 24-hour landslide emergency service in collaboration with other departments to remove immediate landslide danger and to restore essential services to the community. Serious landslides would continue to be investigated with a view to improving the slope safety system.

31 The Department continued to promote slope maintenance as well as public awareness and response towards slope safety. Warning signs to remind the public of keeping clear from the sites of natural terrain hazard mitigation works were put in use. The Department continued to provide advice to private slope owners on slope maintenance and improvement. In addition, 24 guidance documents were produced on slope safety and other geotechnical topics, including reports on lessons learnt from landslides.

32 The key performance measures relating to slope safety and geotechnical standards are:

#### *Target*

	Target	2013 (Actual)	2014 (Actual)	<b>2015 (Plan)</b>
providing information about a slope within five days of an application (%) .....	100	100	100	<b>100</b>

#### *Indicators*

	2013 (Actual)	2014 (Actual)	<b>2015 (Estimate)</b>
new slope features registered .....	634	492	<b>500</b>
detailed stability studies completed on government man-made slopes .....	175	175	<b>165</b>
slope features upgraded and landscaped .....	153	154	<b>150</b>
natural hillside catchments with mitigation measures implemented .....	30	33	<b>30</b>
safety screening studies of private man-made slopes completed.....	102	110	<b>100</b>
expenditure for landslip prevention and mitigation (\$m) .....	1,029.0	1,029.0	<b>1,045.0</b>
geotechnical submissions checked.....	21 443	22 262	<b>21 500</b>
active construction sites inspected .....	3 432	3 530	<b>3 400</b>
guidance documents produced .....	20	24	<b>22</b>

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### *Matters Requiring Special Attention in 2015–16*

33 During 2015–16, the Department will:

- ensure adequate geotechnical input to the planning, design and construction of man-made slopes, tunnels and landslide mitigation measures to natural hillsides, and to blasting works by professionally qualified geotechnical engineers and suitably experienced competent persons;
- continue to audit government and private sector projects involving tunnel works to ensure that the works are carried out to an adequate standard of geotechnical risk management;
- continue to assist government departments in prioritising slopes for Engineer Inspection and maintenance action;
- continue to enhance the appearance of slopes in conjunction with slope upgrading and landslide risk mitigation works under the LPMitP;
- continue to implement the LPMitP to deal with the landslide risk arising from substandard man-made slopes and vulnerable natural hillsides;
- continue to enhance geotechnical guidance on the design and quality control of slope upgrading and landslide risk mitigation works;
- continue to implement the public education campaign to raise public awareness of landslide danger arising from man-made slopes and natural hillsides; and
- continue to provide advisory services to private slope owners on slope maintenance, safety improvement works and aesthetic improvement.

### **Programme (5): Greening and Technical Services**

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	<b>2015–16 (Estimate)</b>
Financial provision (\$m)	120.0	124.4	129.1 (+3.8%)	<b>126.7</b> (–1.9%)
				(or +1.8% on 2014–15 Original)

### *Aim*

34 The aim is to develop greening master plans and implement other greening measures to improve the environment of Hong Kong, provide ground investigation, construction materials testing, geological surveys and other geotechnical services, and manage Hong Kong’s marine fill resources and mud disposal facilities.

### *Brief Description*

35 The Department continued to develop the greening master plans for the New Territories. The Department commenced the implementation of the recommended greening measures in 2014.

36 The Department operates contracts for ground investigation and laboratory testing. In 2014, the Public Works Laboratories (PWLs) continued to serve public works projects by undertaking some 586 000 tests on construction materials. The Department is undertaking technical development on the use of sustainable construction materials (e.g. Ground Granulated Blastfurnace Slag and glass cullet) in civil engineering and geotechnical works in Hong Kong. The Department continued to provide geotechnical advisory services to government departments on a wide range of projects. The Civil Engineering Library, which contains a large collection of geotechnical data on Hong Kong, served about 11 000 users in 2014.

37 The Department, on behalf of the Marine Fill Committee, continued to undertake studies to examine the effects of the dredging and mud disposal activities, allocate marine borrow areas and mud disposal capacity to reclamation and other works projects and provide technical advice for the projects on sand dredging and mud disposal matters.

38 The key performance measures relating to greening and technical services are:

### *Targets*

	Target	2013 (Actual)	2014 (Actual)	<b>2015 (Plan)</b>
providing assistance at the registration counter of the Civil Engineering Library within ten minutes (%).....	100	100	100	<b>100</b>
providing information about geology and natural resources within 4.5 days upon request (%).....	100	100	100	<b>100</b>

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### Indicators

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
no. of greening master plans under planning .....	15	8	0
cumulative total of greening master plans formulated .....	27	34	42
expenditure on greening works implemented under greening master plans (\$m) .....	20.6	9.5	36.5
ground investigation and laboratory soil and rock testing term contracts:			
trial pits excavated .....	413	281	240
length of drilling carried out in soil (m) .....	7 587	7 090	6 000
length of drilling carried out in rock (m) .....	5 007	3 545	3 200
triaxial tests on soil specimens .....	2 315	3 170	3 300
material tests conducted in the PWLs and in contract laboratories managed by the PWLs (thousand) .....	481	586	650
advisory cases handled in respect of land-use planning and engineering feasibility studies .....	1 574	1 808	1 800
geotechnical engineering advisory cases handled .....	798	761	780
value of fill management investigations and studies (\$m) .....	5.6	3.5	3.9
fill management reports and major papers issued .....	13	9	9

### Matters Requiring Special Attention in 2015–16

39 During 2015–16, the Department will:

- complete the development of the greening master plans for the New Territories and continue the implementation of the recommended greening works,
- continue to implement the monitoring and management scheme for disposal of dredged mud,
- continue to provide technical advice and support for marine works projects to minimise marine mud dredging and disposal, and
- continue to provide reliable and efficient construction material testing and ground investigation services to public works projects.

### Programme (6): Supervision of Mining, Quarrying and Explosives

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	2015–16 (Estimate)
Financial provision (\$m)	70.8	71.0	73.6 (+3.7%)	76.3 (+3.7%)
				(or +7.5% on 2014–15 Original)

### Aim

40 The aim is to supervise contracts for quarrying in Hong Kong, enforce the Mining Ordinance (Cap. 285), enforce the Dangerous Goods Ordinance (Cap. 295) in connection with the use of explosives, and safeguard the public from the misuse of explosives.

### Brief Description

41 The Department made satisfactory progress in respect of supervision of quarrying in 2014. The Department continued to supervise the rehabilitation contracts for Lam Tei Quarry and Anderson Road Quarry, issue permits under the Sand Ordinance (Cap. 147) for the importation and transportation of sand, and regulate the use of site crushers on both public and private construction sites. Regular inspections of quarry sites were conducted to enforce safety regulations. The Department is also undertaking a study on the identification of new quarry sites in Hong Kong, which is scheduled to be completed in 2015.

42 The Department also made satisfactory progress in respect of supervision of the use of explosives during the year. To protect the public from the misuse of explosives, the Department continued to maintain strict control over the storage, handling, transportation and use of explosives from their manufacture or importation to their firing on construction sites.



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43 The key performance measures relating to supervision of quarrying and explosives are:

### *Targets*

	Target	2013 (Actual)	2014 (Actual)	2015 (Plan)
issuing a Sand Removal Permit within two days of an application which has satisfied government requirements (%)...	100	100	100	<b>100</b>
issuing a Licence to Manufacture Explosives within two days of an application, where pre-licensing requirements have been satisfied (%).....	100	100	100	<b>100</b>
issuing a Permit to Remove Explosives within one day of an application (%).....	100	100	100	<b>100</b>
issuing a Licence to Store Explosives where pre-licensing requirements have been satisfied				
within two days of an application (%) .....	90	100	100	<b>97</b>
within three days of an application (%) .....	100	100	100	<b>100</b>
issuing a Licence to Use Explosives where pre-licensing requirements have been satisfied				
within two days of an application (%) .....	90	100	100	<b>97</b>
within three days of an application (%) .....	100	100	100	<b>100</b>
endorsing a Licence to Import or Export Explosives within one day of an application (%) .....	100	100	100	<b>100</b>
issuing a Mine Blasting Certificate within one day of an applicant passing an examination (%) .....	100	100	100	<b>100</b>

### *Indicators*

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
aggregates processed by contract quarries (million tonnes) ....	4.1	3.1	<b>1.8<math>\alpha</math></b>
revenue from royalty and rental payments (\$m) .....	64.2	54.5	<b>40.0<math>\alpha</math></b>
Sand Removal Permits issued .....	4 187	7 852	<b>6 000</b>
quarrying and rock crushing contracts supervised .....	2	2	<b>2</b>
safety inspections of quarries conducted .....	24	24	<b>24</b>
tonnes of explosives consumed .....	3 261	1 650	<b>1 200<math>\gamma</math></b>
no. of blasting activities .....	9 601	4 415	<b>2 300<math>\gamma</math></b>
inspections of blasting sites conducted .....	1 732	1 280	<b>1 100<math>\gamma</math></b>
inspections of pre-licensed sites, magazines, manufacturing plants and stores conducted .....	763	684	<b>520<math>\gamma</math></b>
warnings issued .....	1	0	<b>1</b>
licences and permits granted $\beta$ .....	25 751	12 492	<b>7 500<math>\gamma</math></b>
licences and permits renewed $\beta$ .....	279	207	<b>160<math>\gamma</math></b>
tonnes of explosives delivered from government explosives depots .....	274	174	<b>90<math>\gamma</math></b>
no. of deliveries of explosives .....	2 890	1 758	<b>1 650<math>\gamma</math></b>

$\alpha$  The transition between completion of the current Lam Tei Quarry Contract and commencement of the new contract in 2015 will lead to a reduction in the amount of aggregate processed and in turn the revenue from royalty payment.

$\gamma$  The completion of some railway tunnel and site formation works in 2014 will lead to reduction in explosives consumption, number of blasting activities, number of inspections of blasting sites conducted, number of inspections of pre-licensed sites, magazines, manufacturing plants and stores conducted, licences and permits granted and renewed, tonnes of explosives delivered from government explosives depots, and number of deliveries of explosives.

$\beta$  These include all licences and permits except Sand Removal Permits.

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### *Matters Requiring Special Attention in 2015–16*

44 During 2015–16, the Department will continue to work together with the Security Bureau and other departments in taking forward amendments to subsidiary legislation under the Dangerous Goods Ordinance in respect of the use of explosives. The Department will also complete the study on the identification of new quarry sites in Hong Kong.

### **Programme (7): Management of Construction and Demolition Materials**

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	<b>2015–16 (Estimate)</b>
Financial provision (\$m)	694.9	885.1	886.8 (+0.2%)	<b>946.0</b> (+6.7%)
				(or +6.9% on 2014–15 Original)

### *Aim*

45 The aim is to ensure good management and utilisation of inert construction and demolition materials.

### *Brief Description*

46 In 2014, the Department, on behalf of the Public Fill Committee, continued to scrutinise submissions from proponents of public works projects with a view to maximising the re-use of public fill in land formation projects. The Department also continued to monitor progress of reclamation projects. For daily receipt of public fill, the Department continued to liaise with stakeholders concerned such as dump truck drivers and members of the District Councils. To tackle the shortfall in public filling capacity and minimise the disposal of public fill at landfills, the Department continued the operation of the fill banks and the temporary construction waste sorting facilities at Tuen Mun Area 38 and Tseung Kwan O Area 137.

47 The Department continued to enhance the scrutiny of public works projects for reducing the generation of public fill, and provide proponents of public works projects with guidelines to formulate a construction and demolition materials management plan at an early design stage of the projects, so as to minimise the generation of construction and demolition materials at source and maximise their re-use. The Department continued to recycle inert hard construction and demolition materials at Tseung Kwan O Area 137.

48 The Department continued to maintain adequate outlets at strategic locations for inert construction and demolition materials. A short-term barging facility at Mui Wo and a long-term barging point at Chai Wan were being operated.

49 The Department continued to deliver surplus public fill for beneficial re-use in the Mainland and to liaise with the Mainland authority to enhance the scheme.

50 The key performance measures relating to management of construction and demolition materials are:

### *Targets*

	Target	2013 (Actual)	2014 (Actual)	<b>2015 (Plan)</b>
issuing dumping licences within three days (%).....	100	100	100	<b>100</b>
issuing dumping licences within half day for applications submitted in person (%).....	100	100	100	<b>100</b>

### *Indicators*

	2013 (Actual)	2014 (Actual)	<b>2015 (Estimate)</b>
public fill received at public fill reception facilities (million tonnes).....	12.9	12.3	<b>14.0</b>
public fill delivered to the Mainland for beneficial re-use (million tonnes).....	9.8	10.2	<b>12.0</b>
public fill supplied to local projects for beneficial re-use (million tonnes).....	1.0	6.4	<b>1.0#</b>
public fill stockpiled at public fill reception facilities as at year end (million tonnes).....	20.9	16.6	<b>17.6</b>
recycling inert hard construction and demolition materials (million tonnes).....	0.02	0.04	<b>0.12</b>

## Head 33 — CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
submissions processed on behalf of the Public Fill Committee .....	137	140	143
no. of assignment of public fill outlets through trip ticket system .....	343	351	355

# The estimated decrease in the public fill supplied to local projects for beneficial re-use in 2015 is attributed to the anticipated decrease in public fill demand from infrastructure projects.

### *Matters Requiring Special Attention in 2015–16*

51 During 2015–16, the Department will:

- continue the cross-boundary delivery of surplus public fill for beneficial re-use in the Mainland and review the scheme in the light of the experience gained;
- continue to handle the considerable quantity of public fill to be generated from major infrastructure projects, as well as to identify alternative outlets for handling the surplus public fill;
- continue to operate the temporary construction waste sorting facilities at Tuen Mun and Tseung Kwan O; and
- continue to formulate a long-term strategy to handle inert construction and demolition materials.

### **Programme (8): Advice on Development Proposals**

	2013–14 (Actual)	2014–15 (Original)	2014–15 (Revised)	2015–16 (Estimate)
Financial provision (\$m)	31.8	32.3	33.6 (+4.0%)	34.1 (+1.5%)
				(or +5.6% on 2014–15 Original)

### *Aim*

52 The aim is to advise on development proposals.

### *Brief Description*

53 The Department continued to advise government departments and private developers on the engineering aspects of development proposals for the purpose of improving the environment and the infrastructural support to such proposals.

54 The key performance measures relating to advice on development proposals are:

#### *Indicators*

	2013 (Actual)	2014 (Actual)	2015 (Estimate)
town plans and planning briefs on which advice and comments are given .....	155	206	188
public and private development proposals and planning applications examined .....	2 822	2 710	2 700
town plans, planning briefs, public and private development proposals and planning applications dealt with per post .....	70.9	69.4	68.8

### *Matters Requiring Special Attention in 2015–16*

55 During 2015–16, the Department will continue to provide:

- timely response to requests from the Buildings Department, Lands Department and Planning Department for advice on lease conditions, Town Planning Board applications, master development plans and building plans. Measures will also be taken to ensure that due regard is given to environmental factors including conserving natural features, reducing the impact of engineering works and enhancing the quality of the landscape; and
- technical advice and support to the development of the WKCD project.

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### ANALYSIS OF FINANCIAL PROVISION

Programme	2013–14 (Actual) (\$m)	2014–15 (Original) (\$m)	2014–15 (Revised) (\$m)	2015–16 (Estimate) (\$m)
(1) Tourism and Recreational Development .....	42.7	43.2	44.9	45.4
(2) Port and Marine Facilities .....	201.8	204.4	208.5	218.2
(3) Provision of Land and Infrastructure .....	358.9	425.1	436.5	463.0
(4) Slope Safety and Geotechnical Standards .....	325.0	334.9	344.4	348.2
(5) Greening and Technical Services .....	120.0	124.4	129.1	126.7
(6) Supervision of Mining, Quarrying and Explosives .....	70.8	71.0	73.6	76.3
(7) Management of Construction and Demolition Materials .....	694.9	885.1	886.8	946.0
(8) Advice on Development Proposals .....	31.8	32.3	33.6	34.1
	1,845.9	2,120.4	2,157.4 (+1.7%)	2,257.9 (+4.7%)
				(or +6.5% on 2014–15 Original)

#### Analysis of Financial and Staffing Provision

##### Programme (1)

Provision for 2015–16 is \$0.5 million (1.1%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for salary increments and other operating expenses.

##### Programme (2)

Provision for 2015–16 is \$9.7 million (4.7%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for salary increments and other operating expenses.

##### Programme (3)

Provision for 2015–16 is \$26.5 million (6.1%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for filling of vacancies, salary increments, the net increase of 15 posts and other operating expenses.

##### Programme (4)

Provision for 2015–16 is \$3.8 million (1.1%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for filling of vacancies and salary increments, partly offset by the reduced cash flow requirement for purchase of equipment.

##### Programme (5)

Provision for 2015–16 is \$2.4 million (1.9%) lower than the revised estimate for 2014–15. This is mainly due to the reduced cash flow requirement for purchase of equipment, partly offset by increased provision for filling of vacancies and salary increments.

##### Programme (6)

Provision for 2015–16 is \$2.7 million (3.7%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for salary increments and the increased cash flow requirement for purchase of equipment.

##### Programme (7)

Provision for 2015–16 is \$59.2 million (6.7%) higher than the revised estimate for 2014–15. This is mainly due to the increased provision for handling surplus public fill.

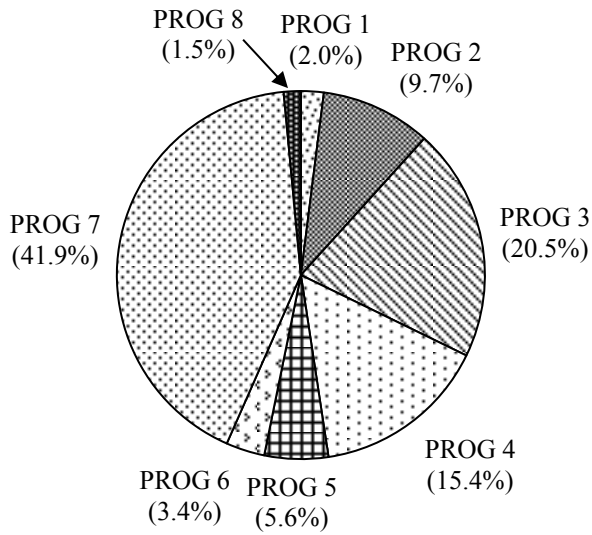
## **Head 33 — CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT**

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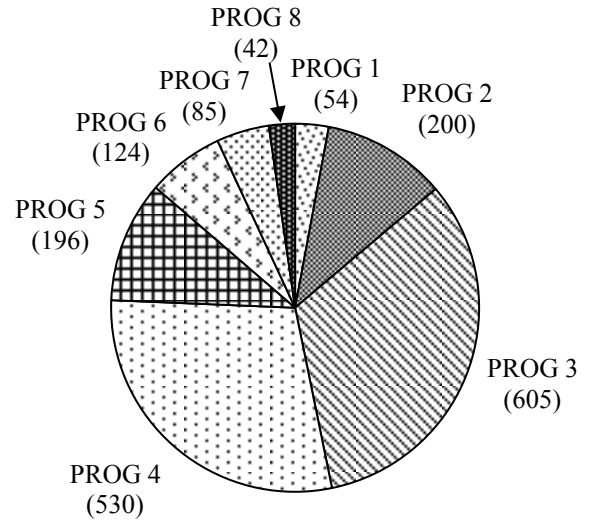
### **Programme (8)**

Provision for 2015–16 is \$0.5 million (1.5%) higher than the revised estimate for 2014–15. This is mainly due to increased provision for salary increments and other operating expenses.

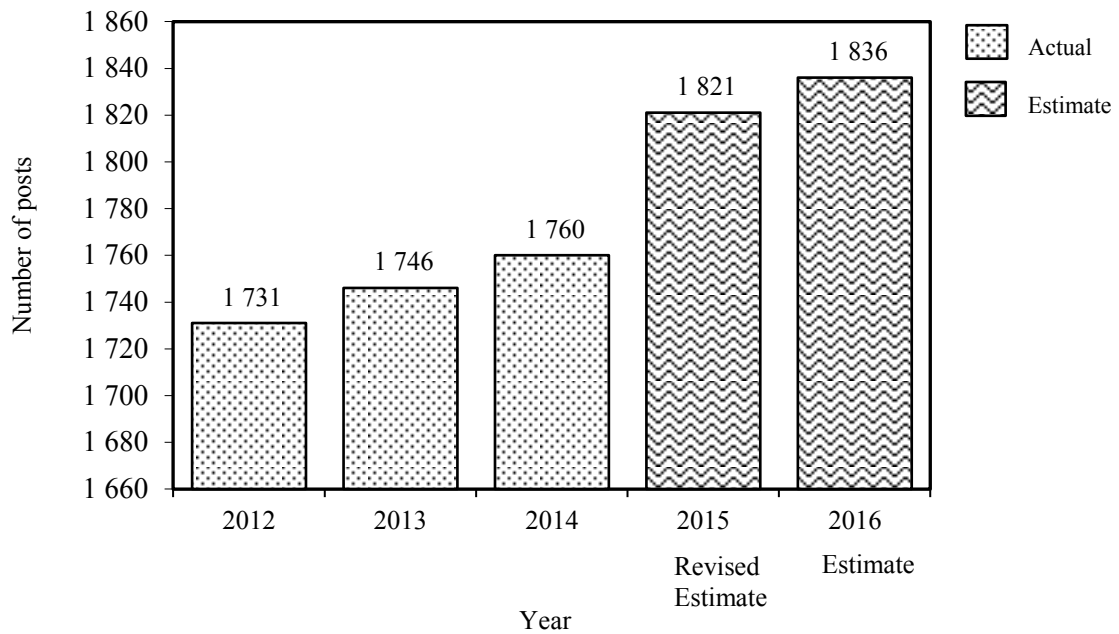
*Allocation of provision to programmes (2015-16)*



*Staff by programme (as at 31 March 2016)*



*Changes in the size of the establishment (as at 31 March)*



## Head 33 — CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Sub-head (Code)	Actual expenditure 2013-14	Approved estimate 2014-15	Revised estimate 2014-15	<b>Estimate 2015-16</b>	
	\$'000	\$'000	\$'000	<b>\$'000</b>	
<b>Operating Account</b>					
Recurrent					
000	Operational expenses .....	1,841,338	2,113,243	2,149,238	<b>2,253,798</b>
	Total, Recurrent.....	<u>1,841,338</u>	<u>2,113,243</u>	<u>2,149,238</u>	<u><b>2,253,798</b></u>
Non-Recurrent					
700	General non-recurrent .....	49	80	65	<b>65</b>
	Total, Non-Recurrent.....	<u>49</u>	<u>80</u>	<u>65</u>	<u><b>65</b></u>
	Total, Operating Account .....	<u>1,841,387</u>	<u>2,113,323</u>	<u>2,149,303</u>	<u><b>2,253,863</b></u>
<b>Capital Account</b>					
Plant, Equipment and Works					
603	Plant, vehicles and equipment.....	—	3,375	3,375	<b>1,125</b>
661	Minor plant, vehicles and equipment (block vote).....	4,473	3,708	4,697	<b>2,950</b>
	Total, Plant, Equipment and Works.....	<u>4,473</u>	<u>7,083</u>	<u>8,072</u>	<u><b>4,075</b></u>
	Total, Capital Account.....	<u>4,473</u>	<u>7,083</u>	<u>8,072</u>	<u><b>4,075</b></u>
	Total Expenditure .....	<u><u>1,845,860</u></u>	<u><u>2,120,406</u></u>	<u><u>2,157,375</u></u>	<u><u><b>2,257,938</b></u></u>

## Head 33 — CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

### Details of Expenditure by Subhead

The estimate of the amount required in 2015–16 for the salaries and expenses of the Civil Engineering and Development Department is \$2,257,938,000. This represents an increase of \$100,563,000 over the revised estimate for 2014–15 and of \$412,078,000 over the actual expenditure in 2013–14.

#### *Operating Account*

##### Recurrent

**2** Provision of \$2,253,798,000 under *Subhead 000 Operational expenses* is for the salaries, allowances and other operating expenses of the Civil Engineering and Development Department.

**3** The establishment as at 31 March 2015 will be 1 821 posts including six supernumerary posts. It is expected that there will be a net increase of 15 posts in 2015–16. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2015–16, but the notional annual mid-point salary value of all such posts must not exceed \$843,323,000.

**4** An analysis of the financial provision under *Subhead 000 Operational expenses* is as follows:

	2013–14 (Actual) (\$'000)	2014–15 (Original) (\$'000)	2014–15 (Revised) (\$'000)	<b>2015–16 (Estimate) (\$'000)</b>
Personal Emoluments				
- Salaries.....	963,152	1,024,700	1,050,600	<b>1,081,800</b>
- Allowances.....	12,844	16,169	16,136	<b>16,086</b>
- Job-related allowances.....	921	1,010	919	<b>988</b>
Personnel Related Expenses				
- Mandatory Provident Fund contribution.....	1,941	2,613	2,715	<b>2,679</b>
- Civil Service Provident Fund contribution.....	21,870	25,898	27,852	<b>34,220</b>
Departmental Expenses				
- Contract maintenance .....	729,624	916,087	924,311	<b>989,050</b>
- General departmental expenses .....	110,986	126,766	126,705	<b>128,975</b>
	1,841,338	2,113,243	2,149,238	<b>2,253,798</b>

#### *Capital Account*

##### Plant, Equipment and Works

**5** Provision of \$2,950,000 under *Subhead 661 Minor plant, vehicles and equipment (block vote)* represents a decrease of \$1,747,000 (37.2%) against the revised estimate for 2014–15. This is mainly due to the reduced requirements in 2015–16 for new and replacement of equipment.



## Head 33 — CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

### Commitments

Sub-head (Code)	Item (Code)	Ambit	Approved commitment	Accumulated expenditure to 31.3.2014	Revised estimated expenditure for 2014–15	Balance
			\$'000	\$'000	\$'000	\$'000
<b><i>Operating Account</i></b>						
700		<i>General non-recurrent</i>				
	528	Provision of warning signs in squatter areas .....	5,000	3,797	65	1,138
			<u>5,000</u>	<u>3,797</u>	<u>65</u>	<u>1,138</u>
<b><i>Capital Account</i></b>						
603		<i>Plant, vehicles and equipment</i>				
	849	Replacement of Universal Testing Machine of 2 000 kN capacity .....	4,500	—	3,375	1,125
			<u>4,500</u>	<u>—</u>	<u>3,375</u>	<u>1,125</u>
		Total .....	<u>9,500</u>	<u>3,797</u>	<u>3,440</u>	<u>2,263</u>