

## **ITEM FOR PUBLIC WORKS SUBCOMMITTEE OF FINANCE COMMITTEE**

**HEAD 707 – NEW TOWNS AND URBAN AREA DEVELOPMENT**  
**Civil Engineering – Land development**  
**711CL – Kai Tak development – advance infrastructure works for  
developments at the southern part of the former runway**

Members are invited to recommend to Finance  
Committee –

- (a) the upgrading of part of **711CL**, entitled “Kai Tak development – reprovisioning of radar on top of the cruise terminal building”, to Category A, at an estimated cost of \$88.4 million in money-of-the-day prices; and
- (b) the retention of the remainder of **711CL** in Category B.

### **PROBLEM**

The surveillance coverage of an existing radar in Kowloon Bay will be blocked by the planned developments in the south apron and runway areas of the former airport. We need to provide a new radar on top of the Kai Tak cruise terminal building to replace the existing one.

**/PROPOSAL .....**

## PROPOSAL

2. The Director of Civil Engineering and Development, with the support of the Secretary for Development, proposes to upgrade part of **711CL** to Category A at an estimated cost of \$88.4 million in money-of-the-day (MOD) prices for reprovisioning of a radar on top of the cruise terminal building. The Director of Architectural Services will undertake the implementation of the works under the cruise terminal building project.

## PROJECT SCOPE AND NATURE

3. The part of **711CL** which we propose to upgrade to Category A comprises –

- (a) reprovisioning of a radar<sup>1</sup> and associated signal processing and relaying equipment, including integration into the existing radar network of the Marine Department; and
- (b) construction of a radome, a radome base support and associated works above the radar tower on top of the cruise terminal building.

— The site plan and the artist's impression showing the proposed works are at Enclosure 1 and Enclosure 2 respectively.

4. Subject to the funding approval of the Finance Committee (FC), we plan to commence the proposed works in July 2011 for completion in June 2013.

5. We will retain the remainder of **711CL** in Category B, which covers the construction of the stage 2 advance infrastructure works to serve the developments at the southern part of the former runway<sup>2</sup>.

**/JUSTIFICATION .....**

---

<sup>1</sup> The proposed radar at the cruise terminal building will comply with the international standards "Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (Up to 300GHz)" which is recommended by the Office of the Telecommunications Authority.

<sup>2</sup> The remainder of **711CL** will be implemented to tie in with the programme of the remaining developments at the southern part of the former runway, i.e. the tourism node, hotels and residential developments.

**JUSTIFICATION**

6. The Marine Department operates a vessel traffic services system to monitor and regulate marine traffic in the waters of Hong Kong. The system consists of a network of 13 radars installed at different locations in the territory, including the existing radar located at the south apron area. The Hong Kong Police Force and the Customs and Excise Department also make use of the radar system for maintaining law and order in the area.

7. The planned public and private developments in the south apron and the runway areas will block the surveillance coverage of the existing radar. To maintain the required coverage, we need to provide a new radar on top of the cruise terminal building to replace the existing one. The new radar will be centrally located in the eastern Victoria Harbour, which is an ideal location for surveillance purpose. Upon completion of the new radar on top of the cruise terminal building, the existing one in the south apron will be demolished to provide land for the planned developments. We will dispose of the existing radar which is approaching the end of its serviceable life.

**FINANCIAL IMPLICATIONS**

8. We estimate the cost of the proposed works to be \$88.4 million in MOD prices (please see paragraph 9 below), broken down as follows –

|  | <b>\$ million</b>               |
|--|---------------------------------|
| (a) Reprovisioning of the radar and associated equipment                 | 44.1                            |
| (b) Construction of the radome, radome base support and associated works | 25.9                            |
| (c) Contingencies  | <u>7.0</u>                      |
| Sub-total  | 77.0 (in September 2010 prices) |

/(d) .....

|                                    |                         |
|------------------------------------|-------------------------|
|                                    | <b>\$ million</b>       |
| (d) Provision for price adjustment | 11.4                    |
|                                    | <hr/>                   |
| Total                              | 88.4 (in MOD<br>prices) |
|                                    | <hr/>                   |

9. Subject to funding approval, we will phase the expenditure as follows –

| Year        | \$ million<br>(Sept 2010) | Price<br>adjustment<br>factor | \$ million<br>(MOD) |
|-------------|---------------------------|-------------------------------|---------------------|
| 2011 – 2012 | 6.5                       | 1.04525                       | 6.8                 |
| 2012 – 2013 | 30.0                      | 1.10143                       | 33.0                |
| 2013 – 2014 | 22.0                      | 1.16201                       | 25.6                |
| 2014 – 2015 | 13.5                      | 1.22592                       | 16.5                |
| 2015 – 2016 | 5.0                       | 1.29335                       | 6.5                 |
|             | <hr/>                     |                               | <hr/>               |
|             | 77.0                      |                               | 88.4                |
|             | <hr/>                     |                               | <hr/>               |

10. We have derived the MOD estimates on the basis of the Government's latest set of assumptions on the trend rate of change in the prices of public sector building and construction output for the period from 2011 to 2016. Subject to funding approval, the Director of Architectural Services will deliver the works under the cruise terminal building project to minimise project interfacing issues and ensure quality and architectural compatibility of the reprovisioning project with the cruise terminal building.

11. We estimate the annual recurrent expenditure arising from the proposed works to be about \$1.1 million.

/PUBLIC .....

## **PUBLIC CONSULTATION**

12. We consulted the Wong Tai Sin District Council through circulation of an information paper on 28 February 2011. We also consulted the Kwun Tong District Council on 1 March 2011, and the Housing and Infrastructure Committee of the Kowloon City District Council on 24 March 2011 on the proposed works. Members of the relevant District Councils raised no objection.

13. We consulted the Legislative Council Panel on Development on 20 April 2011 on the proposed works. Members raised no objection.

## **ENVIRONMENTAL IMPLICATIONS**

14. The reprovisioning of the radar is not a designated project under the Environmental Impact Assessment Ordinance (Cap. 499). The project will not cause long-term adverse environmental impact. For short-term environmental impacts during construction, we will control noise, dust and site run-off nuisances to within established standards and guidelines through implementation of mitigation measures under the contract. These measures include off-site prefabrication and the use of silencers, mufflers, acoustic lining or shields and silenced construction plant to reduce noise generation. We have allowed \$50,000 (in September 2010 prices) in the project estimates for implementation of environmental mitigation measures, monitoring and auditing work.

15. At the planning and design stages, we have considered measures to reduce the generation of construction waste where possible. We have adopted prefabrication of the radome and the radome base support to reduce temporary framework and construction waste. As the project is to construct radar equipment and a radome at the top of radar tower, there will be no excavation works and therefore no inert construction waste will be generated.

16. At the construction stage, we will require the contractor to submit for approval a plan setting out the waste management measures, and ensure that the day-to-day operations on site comply with the approved plan. We will control the disposal of non-inert construction waste, which amounts to about 44 tonnes, at

/landfills .....

landfills through a trip-ticket system. The total cost for accommodating construction waste at landfill sites is estimated to be \$5,500 for this project (based on a unit cost of \$125 per tonne<sup>3</sup> for disposal at landfills).

## HERITAGE IMPLICATIONS

17. The project will not affect any heritage sites, i.e. all declared monuments, proposed monuments, graded historic sites/buildings, sites of archaeological interest and Government historic sites identified by the Antiquities and Monuments Office.

## LAND ACQUISITION

18. The proposed works do not require any land acquisition.

## BACKGROUND INFORMATION

19. We included **711CL** in Category B in December 2004.

20. In December 2006, the FC approved upgrading part of **711CL** as **724CL** “Kai Tak development – investigation and detailed design for advance infrastructure works for developments at the southern part of the former runway” at an estimated cost of \$38.0 million in MOD prices for engaging consultants to undertake the investigation and detailed design for advance infrastructure works to serve the planned developments at the southern part of the former runway. We have substantially completed the design of the proposed works mentioned in paragraph 3 above. We will continue with the detailed design of the remaining advance infrastructure works.

/21. ....

---

<sup>3</sup> This estimate has taken into account the cost for developing, operating and restoring the landfills after they are filled and the aftercare required. It does not include the land opportunity cost for existing landfill sites (which is estimated at \$90 per m<sup>3</sup>), nor the cost to provide new landfills (which is likely to be more expensive), when the existing ones are filled.

21. In February 2008, the FC approved upgrading another part of **711CL** as **734CL** “Kai Tak development – decommissioning and decontamination works at the south apron of the former Kai Tak Airport and installation of supplementary radar at North Point Government Offices (NPGO)”, at an estimated cost of \$120.1 million in MOD prices for carrying out decommissioning and decontamination works to remove and treat underground contaminants at the south apron area and installing a supplementary radar<sup>4</sup> at the rooftop of NPGO. All the works have been substantially completed.

22. In May 2009, the FC approved upgrading another part of **711CL** as **741CL** “Kai Tak development – stage 1 advance infrastructure works for developments at the southern part of the former runway” at an estimated cost of \$539.6 million in MOD prices for construction of the stage 1 advance infrastructure works to serve the cruise terminal developments at the southern part of the former runway. The works are in good progress for completion in December 2013.

23. The new radar will be installed inside a radome above the radar tower on the top of the cruise terminal building. The design and construction of the radar tower structure and building services support for the installation of radar are under the scope of the cruise terminal building project, the costs of which will be charged to **7GA** “Cruise terminal building and ancillary facilities for the Kai Tak cruise terminal development”.

24. At the Public Works Subcommittee (PWSC) meeting on 31 October 2001, some Members suggested and the Administration agreed to include information on the scope, approved project estimates and progress of all the Kai Tak development (formerly known as South East Kowloon development) Public Works Programme items in future PWSC submissions relating to Kai Tak development. The information is at Enclosure 3.

25. The proposed works will not involve any tree removal and planting proposal.

/26. ....

---

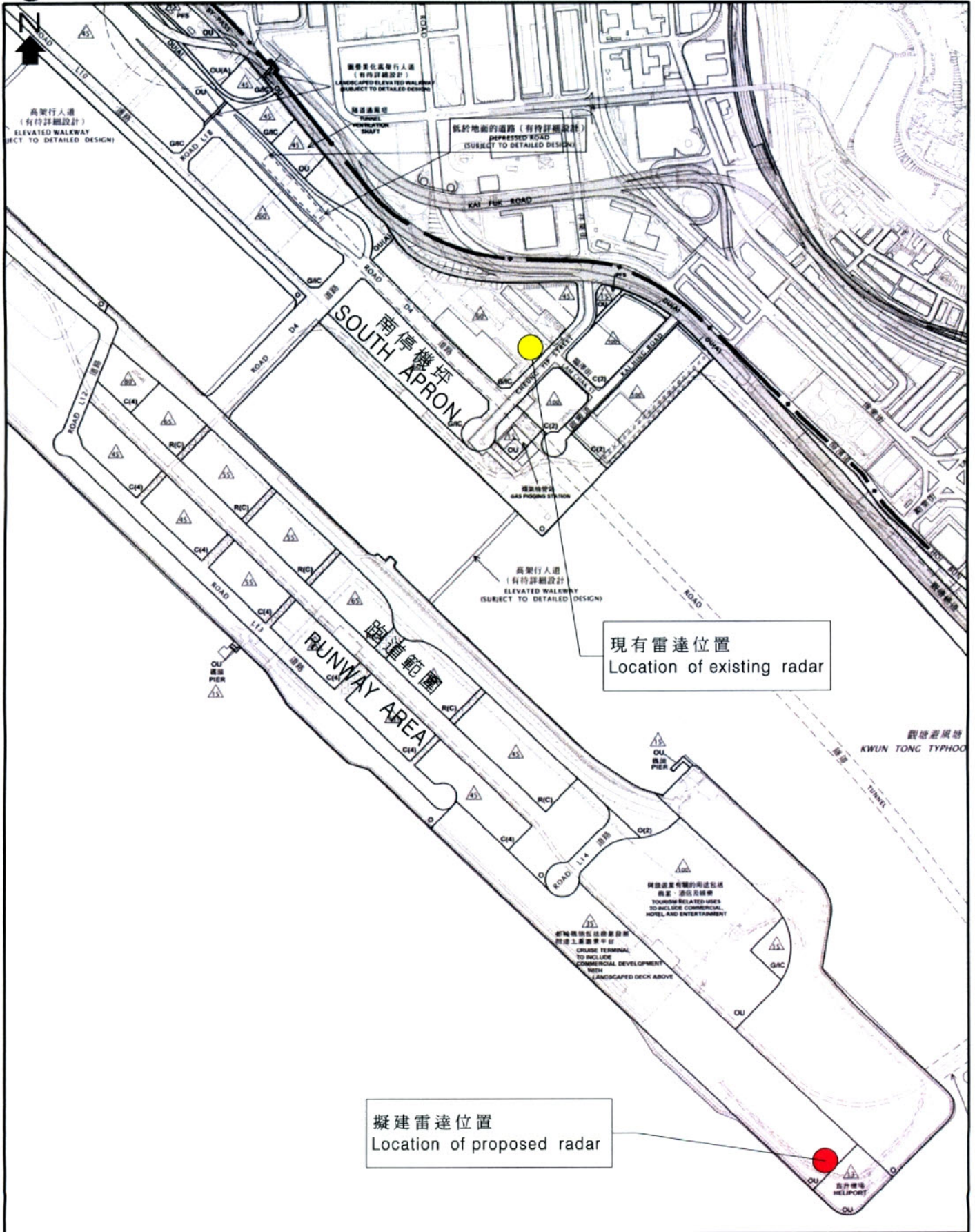
<sup>4</sup> The installation of the supplementary radar at NPGO was completed in January 2010 such that the construction of the cruise terminal building will not affect the surveillance coverage of the existing radar at the south apron area.

26. We estimate that the proposed works will create about 33 jobs (30 for labourers and another 3 for professional/technical staff) providing a total employment of 700 man-months.

-----

Development Bureau  
May 2011





現有雷達位置  
Location of existing radar

擬建雷達位置  
Location of proposed radar

2011年至2012年年度工務小組委員會文件 PWSC Submission 2011 - 2012

|   |            |            |                  |   |                            |
|---|------------|------------|------------------|---|----------------------------|
| 圖則名稱 Drawing title<br>KAI TAK DEVELOPMENT<br>- REPROVISIONING OF RADAR ON TOP OF<br>CRUISE TERMINAL BUILDING<br>LOCATION OF PROPOSED & EXISTING RADARS<br>啟德發展計劃 - 在郵輪碼頭大樓頂部重置雷達<br>擬建及現有雷達的位置圖 | 繪圖 Drawn   | 簽署 Initial | 日期 Date          | 項目編號 Item no.   | 辦事處 Office                 |
|   | K.Y.LAM    | signed     | 23.05.2011       | 711CL   | 九龍拓展處                      |
|   | 核對 Checked | 簽署 Initial | 日期 Date          | 比例尺 Scale   | KOWLOON DEVELOPMENT OFFICE |
|   | Marco Tai  | signed     | 23.05.2011       | 1 : 8 000<br>(FOR A4)   |                            |
| 核准 Approved   | 簽署 Initial | 日期 Date    | 圖則編號 Drawing no. | 土木工程拓展署<br>CIVIL ENGINEERING<br>AND DEVELOPMENT<br>DEPARTMENT |                            |
| John Leung  | signed     | 23.05.2011 | KZ 686           |   |                            |



2011年至2012年年度工務小組委員會文件 PWSC Submission 2011 - 2012

項目編號 711CL  
Item no.

KAI TAK DEVELOPMENT  
- REPROVISIONING OF RADAR  
ON TOP OF THE CRUISE TERMINAL BUILDING

啓德發展計劃 - 在郵輪碼頭大樓頂部重置雷達

ARTIST'S IMPRESSION OF RADAR FACILITIES  
ON TOP OF THE CRUISE TERMINAL BUILDING

啓德郵輪碼頭大樓上的雷達設施構思圖

**Kai Tak Development**  
**List of Public Works Programme (PWP) items in Category A**

|                                  |   |
|----------------------------------|---|
| PWP Item No.                     | <b>440CL</b>  |
| Project title:                   | South East Kowloon development – comprehensive feasibility study  |
| Date of upgrading to Category A: | April 1995  |
| Approved project estimate:       | \$220.0 million   |
| Project scope:                   | The project comprises a comprehensive feasibility study for the whole South East Kowloon area, as well as associated laboratory testing and site investigation works. |
| Brief account of progress:       | (a) The feasibility study was completed in December 2003.<br><br>(b) The project account has been finalised at the sum of \$185.2 million.                            |

\* \* \*

|                                  |  |
|----------------------------------|--|
| PWP Item No.                     | <b>494CL</b> (part upgraded from <b>469CL</b> )  |
| Project title:                   | South East Kowloon development at Kai Tak Airport – decontamination and site preparation |
| Date of upgrading to Category A: | February 1998  |
| Approved project estimate:       | \$316.9 million  |

Project scope:

- (a) ground decontamination at the north apron of Kai Tak Airport (NAKTA);
- (b) demolition of existing buildings and structures in the northern part of NAKTA; and
- (c) breaking up of the existing apron slab and land formation at NAKTA for housing development.

Brief account of progress:

- (a) The civil engineering contract covering the above works was completed in April 2002.
- (b) Post-decontamination monitoring works were completed in December 2003.
- (c) The project account has been finalised at the sum of \$281.8 million.

\* \* \*

PWP Item No. **694CL** (part upgraded from **469CL**)

Project title: South East Kowloon development at Kai Tak Airport – consultants' fees and site investigation

Date of upgrading to Category A: November 2001

Approved project estimate: \$115.9 million

Project scope: Site investigation works and detailed design for –

- (a) about 6 kilometres box culverts;
- (b) new roads including flyovers and pedestrian streets, and upgrading of existing roads and associated drainage, sewerage and watermains;
- (c) five sewage pumping stations and rising mains to convey sewage to the existing To Kwa Wan sewage treatment plant;
- (d) drainage maintenance depots along with provision of plant and equipment for servicing the drainage

culverts in NAKTA;

- (e) open space development and landscaping works;
- (f) demolition of remaining ex-airport facilities, including the passenger terminal building and Kai Tak car-parking building and decontamination of land underneath the buildings; and
- (g) provision of necessary environmental mitigation measures and implementation of an environmental monitoring and audit (EM&A) programme.

Brief account of progress:

- (a) Consultancy started in January 2002.
- (b) Detailed design for demolition of the passenger terminal building and associated structures remaining in NAKTA has been completed.
- (c) Detailed design of the stage 1 and stage 2 infrastructure works at the north apron has been completed.
- (d) Detailed design of the remaining infrastructure works at the north apron is in progress.

\* \* \*

|                                  |   |
|----------------------------------|---|
| PWP Item No.                     | <b>693CL</b> (part upgraded from <b>465CL</b> )   |
| Project title:                   | South East Kowloon development – consultants’ fees and site investigation for Kai Tak Approach Channel reclamation  |
| Date of upgrading to Category A: | November 2001   |
| Approved project estimate:       | \$63.8 million  |
| Project scope:                   | Site investigation works and detailed design for – <ul style="list-style-type: none"> <li>(a) treatment of the contaminated sediments (including pilot tests and post-treatment monitoring) in Kai Tak</li> </ul> |

Approach Channel (KTAC);

- (b) reclamation works in KTAC;
- (c) new drainage systems (including widening and extension of Kai Tak Nullah and Jordan Valley box culvert, advance work for future road tunnels underneath the box culverts) and improvements to existing drainage systems necessitated by the proposed reclamation in KTAC;
- (d) demolition of the existing airport taxiway bridge across KTAC;
- (e) provision of necessary environmental mitigation measures and implementation of an EM&A programme; and
- (f) field surveys and environmental studies for different scenarios of Kai Tak development.

Brief account of progress:

- (a) Consultancy started in January 2002.
- (b) In the light of the Court of Final Appeal's ruling on harbour reclamation under the Protection of the Harbour Ordinance, the consultancy had been suspended since December 2003 and was terminated in July 2006.
- (c) The project account has been finalised at the sum of \$50.2 million.

\* \* \*

PWP Item No. **699CL** (part upgraded from **482CL**)

Project title: South East Kowloon development – consultants' fees and site investigation for Kowloon Bay reclamation and engineering works

Date of upgrading to Category A: July 2002

Approved project estimate: \$105.7 million

Project scope: Site investigation works and detailed design for –

- (a) treatment of contaminated sediments (including post-treatment monitoring) at the seabed of Kowloon Bay;
- (b) reclamation for about 61 hectares of land in Kowloon Bay;
- (c) construction of a new seawall, breakwater, and marine facilities including public landing steps;
- (d) demolition of existing breakwaters and marine facilities including Kowloon City vehicular ferry pier, passenger ferry pier and public pier;
- (e) construction of new drainage culverts and improvements to existing hinterland drainage systems necessitated by the proposed reclamation in Kowloon Bay;
- (f) upgrading of existing roads and construction of new roads, a road tunnel, pedestrian streets, footbridges and pedestrian subways with associated drainage, sewerage and water works;
- (g) construction of public transport facilities;
- (h) construction of sewage holding facilities adjacent to the existing To Kwa Wan sewage treatment works and sewage pumping stations;
- (i) relocation of the existing Eastern Quarantine and Immigration Anchorage and mooring buoys within Kowloon Bay;
- (j) provision of landscaping works at the proposed reclamation area;
- (k) provision of environmental protection measures; and
- (l) implementation of an EM&A programme.

- Brief account of progress:
- (a) Consultancy started in December 2002.
  - (b) In the light of the Court of Final Appeal's ruling on harbour reclamation under the Protection of the Harbour Ordinance, the consultancy had been suspended since December 2003 and was terminated in July 2006.
  - (c) The project account has been finalised at the sum of \$6.1 million.

\* \* \*

PWP Item No. **708CL** (part upgraded from **469CL**)

Project title: South East Kowloon development – site preparation and drainage works at north apron area of Kai Tak Airport

Date of upgrading to Category A: February 2004

Approved project estimate: \$131.6 million

- Project scope:
- (a) construction of about 600 metres of a twin-cell box culvert and decommissioning of an existing culvert;
  - (b) demolition of the passenger terminal building, the Kai Tak car-parking building and associated structures, along with related land decontamination; and
  - (c) implementation of an EM&A programme for the works mentioned in items (a) to (b) above.

- Brief account of progress:
- (a) Works contract commenced in April 2004.
  - (b) The works were completed in September 2006.
  - (c) The project account has been finalised at the sum of \$131.3 million.

\* \* \*



PWP Item No. **719CL**

Project title: Kai Tak development - engineering review

Date of upgrading to Category A: December 2006

Approved project estimate: \$87.5 million

Project scope: (a) a study to confirm the detailed engineering feasibility of the revised Preliminary Outline Development Plan of Kai Tak development;

(b) preliminary preparatory work for the early development of the cruise terminal in Kai Tak; and

(c) associated site investigation and supervision.

Brief account of progress: Consultancy commenced in January 2007 and substantially completed in April 2010.

\* \* \*

PWP Item No. **724CL** (part upgraded from **711CL**)

Project title: Kai Tak development – investigation and detailed design for advance infrastructure works for developments at the southern part of the former runway

Date of upgrading to Category A: December 2006

Approved project estimate: \$38.0 million

Project scope: (a) detailed design of the works described below including the associated Schedule 2 environmental impact assessments :

- construction of approximately 2 kilometres of a dual 2-lane district distributor including associated pedestrian deck;
- provision of a sewage pumping station and rising

mains;

- improvements to related existing bridge, roads and junctions;
- construction of associated local roads, transport facilities, drainage, sewerage, watermains and landscaping works;
- relocation and reprovisioning of existing facilities including the Marine Vessel Traffic Services (MVTS) radar and fireboat berthing facilities; and
- an EM&A programme for works mentioned above,

all for serving the proposed developments at the southern part of the former runway in Kai Tak;

- (b) associated site investigation and supervision; and
- (c) preparation of tender documents and assessment of tenders.

Brief account of progress:

- (a) Consultancy commenced in January 2007.
- (b) Detailed design of the decommissioning and decontamination works at the south apron and installation of supplementary radar at North Point Government Offices (NPGO) has been completed.
- (c) Detailed design of the stage 1 advance infrastructure works has been completed.
- (d) Detailed design of the remaining infrastructure works is in progress.

\* \* \*

PWP Item No. **734CL** (part upgraded from **711CL**)

Project title: Kai Tak development – decommissioning and decontamination works at the south apron of the former Kai Tak Airport and installation of supplementary radar at NPGO.

- Date of upgrading to Category A: February 2008
- Approved project estimate: \$120.1 million
- Project scope:
- (a) decommissioning and decontamination of about 12 600 square metres of land at the south apron of the former Kai Tak Airport;
  - (b) procurement and installation of a supplementary radar and associated signal processing and relaying equipment on the rooftop of NPGO, including integration into the existing MVTTS system of Marine Department;
  - (c) construction of a radar support and an equipment room on the rooftop of NPGO, provision of building services and other associated works; and
  - (d) implementation of necessary environmental mitigation measures, monitoring and auditing work.
- Brief account of progress:
- (a) Works contract commenced in May 2008.
  - (b) The works were substantially completed in January 2010.
  - (c) The finalisation of contract account is in progress.

\* \* \*

- PWP Item No. **738CL** (part upgraded from **465CL**)
- Project title: Kai Tak development – detailed design and site investigation for Kai Tak approach channel (KTAC) and Kwun Tong typhoon shelter (KTTS) improvement works
- Date of upgrading to Category A: May 2009
- Approved project estimate: \$50.0 million
- Project scope: Site investigation works, environmental mitigation trial and monitoring, and detailed design for –

- (a) treatment of the contaminated sediments at KTAC and KTTS;
- (b) forming of a 600-metre opening at the former runway and construction of a piled deck for support of Metro Park on top of the opening;
- (c) improvement works to the embankments of the associated waterways;
- (d) demolition of existing dolphin connecting to the former runway; and
- (e) implementation of necessary environmental mitigation measures, monitoring and auditing work.

Brief account of progress:

- (a) Consultancy commenced in August 2009.
- (b) Detailed design of Phase 1 works has been completed.
- (c) Design of the Phase 2 works is in progress.

\* \* \*

PWP Item No. **740CL** (part upgraded from **702CL**)

Project title: Kai Tak development – detailed design and site investigation for remaining infrastructure works for developments at the former runway

Date of upgrading to Category A: May 2009

Approved project estimate: \$32.0 million

Project scope: Site investigation works and detailed design for –

- (a) construction of approximately 1 kilometre of a dual 2-lane district distributor;
- (b) construction of three footbridges;
- (c) construction of a piled deck for support of the district distributor on top of the 600-metre opening;

- (d) construction of local roads, footbridges and subway extensions, junction improvement, drainage, sewerage, water mains and landscaping works at the former runaway and south apron, and other associated works; and
- (e) implementation of necessary environmental mitigation measures, monitoring and auditing work.

Brief account of progress:

- (a) Consultancy commenced in July 2009.
- (b) Detailed design of the infrastructure works is in progress.

\* \* \*

PWP Item No. **739CL** (part upgraded from **469CL**)

Project title: Kai Tak development – stage 1 infrastructure works at north apron area of Kai Tai Airport

Date of upgrading to Category A: May 2009

Approved project estimate: \$566.5 million

- Project scope:
- (a) construction of about 2.6 kilometres of new roads, realignment of Concorde Road, extension and widening of Kai Wah Street, temporary and permanent closure of existing roads within the north apron, and associated drainage, sewerage and water mains;
  - (b) construction of two footbridges (FB1 and FB4) of total length of about 260 metres and improvement works to three existing subways (SW1, SW3 and SW5) across Prince Edward Road East;
  - (c) construction of two drainage box culverts (3.0 metres by 2.8 metres and 2.5 metres by 2.5 metres respectively) of total length of about 600 metres;
  - (d) associated landscaping works; and

- (e) provision of necessary environmental mitigation measures, and implementation of an EM&A programme for the works mentioned in subparagraphs (a) to (d) above.

Brief account of progress: Works contract commenced in July 2009 for completion by December 2013.

\* \* \*

PWP Item No. **741CL** (part upgraded from **711CL**)

Project title: Kai Tak development – stage 1 advance infrastructure works for developments at the southern part of the former runway

Date of upgrading to Category A: May 2009

Approved project estimate: \$539.6 million

- Project scope:
- (a) construction of approximately 1.8 kilometres long single 2-lane carriageway and associated footpaths and landscaping works;
  - (b) improvements to the former taxiway bridge, existing roads and junctions;
  - (c) construction of a fireboat berth cum public landing steps together with access roads;
  - (d) construction of storm drains, sewers and water mains of length of about 3 kilometres, 7.5 kilometres and 8.6 kilometres respectively;
  - (e) construction of a sewage pumping station; and
  - (f) provision of necessary environmental mitigation measures, and implementation of an EM&A programme for the works mentioned in subparagraphs (a) to (e) above.

Brief account of progress: Works contract commenced in September 2009 for completion by December 2013.

\* \* \*

PWP Item No. **841TH** (part upgraded from **785TH**)

Project title: Trunk Road T2 – investigation and design

Date of upgrading to Category A: June 2009

Approved project estimate: \$133.6 million

Project scope: (a) impact assessments on environment, traffic, marine, heritage and other related aspects;

(b) detailed design of the works; and

(c) associated site investigations and supervision.

Brief account of progress: Consultancy commenced in July 2009. Impact assessments and site investigation are in progress.

\* \* \*

PWP Item No. **736CL**

Project title: Site formation for Kai Tak cruise terminal development

Date of upgrading to Category A: November 2009

Approved project estimate: \$2,303.9 million

Project scope: (a) construction of about 1 100 metres long seawall;

(b) construction of a 35 metres wide and 850 metres long apron area, including piled structures for two alongside berths, mooring and fender systems, and interfacing provisions for installation of apron

facilities, for berthing of cruise vessels;

- (c) construction of about 150 m long associated piled transition structures at two ends of the berths;
- (d) dredging of about 86 hectares of adjoining seabed to allow manoeuvring and berthing of cruise vessels with deep drafts; and
- (e) provision of necessary environmental mitigation measures, including monitoring and auditing for the works mentioned in sub-paragraphs (a) to (d) above.

Brief account of progress:

Works contract commenced in November 2009 for project completion by end-2015, with the target of commissioning the first berth around mid-2013.

\* \* \*

PWP Item No.

**7GA**

Project title:

Cruise terminal building and ancillary facilities for the Kai Tak cruise terminal development

Date of upgrading to Category A:

April 2010

Approved project estimate:

\$5,852.1 million

Project scope:

- (a) the development of new cruise terminal facilities on a site of 7.6 hectares at the southern end of the former runway at the Kai Tai development; and
- (b) provisions of building services to the apron area, including passenger gangways, electricity supply system, on-shore water supply, on-shore sewage reception facilities, external lighting, navigation lighting, fire fighting provisions, cable containment for telephone and data, etc.



Brief account of  
progress:

Works contract commenced in May 2010 for completion in  
2013.