

[Translation]

香港特別行政區政府

The Government of the Hong Kong Special Administrative Region

運輸及房屋局

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本局檔號 Our Ref. HD 4-2/PS1/1-55/1/2 (2016) XVI

來函檔號 Your Ref. R106

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27 May 2016

Hon CHAN Yuen-han, SBS, JP
Rooms 1009-1014
Legislative Council Complex
1 Legislative Council Road
Central, Hong Kong

Dear Hon CHAN,

Examination of Estimates of Expenditure 2016-17
(Question Serial No: R106)

I refer to the above question which you raised during the examination of the estimates of expenditure for 2016-17 regarding the design and greening of public rental housing (PRH). Our reply is as follows.

1. The greening ratios for PRH estates in the past three years (2012-13, 2013-14 and 2014-15) are listed at **Annex 1**.
2. The Hong Kong Housing Authority (HA) has been adopting people-oriented, functional and cost effective, and sustainable planning and design principles in PRH developments. Residents' surveys are conducted for every newly completed PRH estate to collect residents' opinions on the estate's design and management, so as to optimise the housing design and foster a quality living environment for the residents. Over the years, the design and construction quality of public housing developments of HA are well recognised by the building industry as well as the residents, and a number of local and international awards were received. The local or international design or architecture awards received in recent years are listed at **Annex 2**.

3. HA provides at least one metre square open space per person for the residents in each PRH estate in accordance with the "Hong Kong Planning Standards and Guidelines". Greening enhances thermal comfort, mitigates the urban heat island effect, improves air quality and reduces solar heat gain and energy consumption. Since 2010, HA has adopted a green ratio of not less than 30% for public housing developments with site area larger than two hectares, while the ratio for sites less than two hectares is 20%. To optimise the utilisation of land resources, other than the provision of traditional at-grade planting at open space of the estates, HA applies slope greening as well. Moreover, subject to individual design and related environmental factors, HA utilises sky-rise greening method such as vertical and rooftop greening. This enables HA to meet the greening ratio target while maximising the housing production at the same time, as well as to create a sustainable living environment.

Yours sincerely,

(Original Signed)

(Jerry CHEUNG)

for Secretary for Transport and Housing

Encl.

c.c.

Clerk to the Legislative Council Finance Committee (Attn: Mr Daniel SIN)
Secretary for Financial Services and the Treasury (Attn: Ms Emily TSANG)

屋邨名稱	Estate Name	綠化率 Greening Ratio
元洲邨五期	Un Chau Estate Phase 5	12%
牛頭角下邨1,7期	Lower Ngau Tau Kok Estate Phase 1 & 7	18%
石硤尾邨2,5期	Shek Kip Mei Estate Phase 2 & 5	26%
豐和邨	Fung Wo Estate	25%
龍逸邨	Lung Yat Estate	23%
美田邨	Mei Tin Estate	27%
榮昌邨	Wing Cheong Estate	23%
長沙灣邨	Cheung Sha Wan Estate	21%
石籬(2)邨	Shek Lei Estate (2)	29%
啟晴邨	Kai Ching Estate	30%
德朗邨	Tak Long Estate	37%
葵聯邨	Kwai Luen Estate	21%
怡明邨	Yee Ming Estate	20%
美東邨	Mei Tung Estate	21%

Register of Awards/Prizes received in 2011/12

Year	Award Title	Organiser	Project	Category	Award Attained
2011/12	Asia-Pacific Federation of Project Management (APFPM) Award 2011	Asia-Pacific Federation of Project Management	Redevelopment of Upper Ngau Tau Kok Estate Ph 2&3	Construction / Engineering in excess of AUD100M	Winner
2011/12	Asia-Pacific Federation of Project Management (APFPM) Award 2011	Asia-Pacific Federation of Project Management	Redevelopment of Upper Ngau Tau Kok Estate Ph 2&3	Sustainable project	Finalist
2011/12	HKIPM Project Management Achievement Awards 2011	Hong Kong Institute of Project Management	Redevelopment of Upper Ngau Tau Kok Estate Ph 2&3	Construction / Engineering in excess of AUD100M	Winner
2011/12	HKIPM Project Management Achievement Awards 2011	Hong Kong Institute of Project Management	Redevelopment of Upper Ngau Tau Kok Estate Ph 2&3	Sustainable project	Winner
2011/12	Hong Kong Green Awards 2011- Green Management Award	Green Council	Demolition of Lower Ngau Tau Kok Estate	Large Corporation	Silver
2011/12	Autodesk HK BIM Award 2011	Autodesk Hong Kong	Versatile BIM / What You See is What You Can Do: Construction of Tai Pak Tin Street, Demolition of Lower Ngau Tau Kok & So Uk.	BIM Applications	Winning Organization
2011/12	Structural Excellence Award	Joint Structural Division of The Hong Kong Institution of Engineers/ the Institution of Structural Engineers	Choi Wan Road Site 2	Hong Kong Projects Residential and Institutional Buildings Category	Commendation Award
2011	Considerate Contractors Site Award Scheme	Development Bureau & Construction Industry Council	Construction of Shopping Centre at Yau Tong Estate Redevelopment Phase 4	Non-Public Works Sites- New Works	Gold Award - site supervisory team

Register of Awards/Prizes received in 2012/13

Year	Award Title	Organiser	Project	Category	Award Attained
2012/13	HKGBC, BEAM Plus V.1.2 for New Building	Hong Kong Green Building Council	Redevelopment of Ex-uen Long Estate	Certificate	Platinum Rating
2012/13	HKGBC, BEAM Plus V.1.2 for New Building	Hong Kong Green Building Council	Redevelopment of Ex-uen Long Estate	Certificate	Platinum Rating
2012/13	FuturArc Green Leadership Award 2013	FuturArc, with BCI Asia as Competition Registrar	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Citation/Merit
2012/13	FuturArc Green Leadership Award 2013	FuturArc, with BCI Asia as Competition Registrar	Yau Lai Estate Phase 5	Residential - multiple houses	Green Leadership Award
2012/2013	2012 HKIE Environmental Paper Award	HKIE - Environmental Division	Redevelopment of Kai Tak Site 1A	Innovation and Environmental Performance	1st Runner-up
2012/2013	2012 HKIE Environmental Paper Award	HKIE - Environmental Division	Redevelopment of Kai Tak Site 1A	Innovation and Environmental Performance	1st Runner-up
2012/13	HKIPM Award 2012	Hong Kong Institute of Project Management	Choi Wan Road Public Housing Development	Construction/Engineering	Winner
2012/13	HKGBC, BEAM Plus V.1.2 for New Building	Hong Kong Green Building Council	ExYuen Long Estate	Residential	Platinum rating
2012/13	Platinum rating for New Buildings (4/04 ver.)	HK BEAM Society	Kai Tak Site 1A Phases 1 and 2 (exclude CC and Carpark)	Green Building	Platinum Rating
2012/13	The Hong Kong Institute of Landscape Architects (HKILA) 2012 Design Award	The Hong Kong Institute of Landscape Architects	Sau Mau Ping South Estate	Residential Landscape Category	Silver Award
2012/13	APFPM Award 2012	Asia Pacific Federation of Project Management	Choi Wan Road Public Housing Development	Construction/Engineering	High Commendation
2012/13	The Hong Kong Institute of Landscape Architects (HKILA) 2012 Design Award	The Hong Kong Institute of Landscape Architects	Sau Mau Ping South Estate	Residential Landscape Category	Silver Award
2012/13	Quality Building Award 2012	Co-organized by professional organizations in Hong Kong	Redevelopment of Lam Tin Estate Phase 7	Hong Kong Residential [Multiple Buildings] Category	Grand Award
2012/13	FuturArc Green Leadership Award 2012	FuturArc, with BCI Asia as Competition Registrar	Choi Wan Road Public Housing Development	Residential - multiple houses	Green Leadership Award

Register of Awards/Prizes received in 2013/14

Year	Award Title	Organiser	Project	Category	Award Attained
2013/14	BEAM Plus V1.2 for NB	Hong Kong Green Building Council Limited	Public Rental Housing Development at Tung Chung Area 56	Certificate	Platinum Rating
2013/14	2012 Environmental Paper Award	HKIE - Environmental Division	Redevelopment of Kai Tak Site 1A	Innovation and Environmental Performance	1st Runner-up
2013/14	Innovation Award for the Engineering Industry	The Hong Kong Institution of Engineers	Redevelopment of Kai Tak Site 1A	Construction Industry	1st Runner-up
2013/14	Building Environmental Assessment Method (BEAM) (04/2004 version)	BEAM Society Limited	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Platinum Rating
2013/14	FuturArc Green Leadership Award 2013	FuturArc, with BCI Asia as Competition Registrar	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Citation/Merit
2013/14	Autodesk HK BIM Awards 2013	Autodesk Far East Ltd.	Hin Tin Street, Shan Tin Area 31 (HOS) Wang Yin Street, Yuen Long (HOS) Tung Tau Cottage Area East (PRH)	Use of BIM	One of the winning organisations
2013/14	HKGBC, BEAM Plus V.1.2 for New Building	Hong Kong Green Building Council	PRH Development at Ex-Au Tau Departmental Quarters	Certificate	Platinum Rating
2013/14	HKGBC, BEAM Plus V.1.2 for New Building	Hong Kong Green Building Council	Development of Tung Chung Area 56	Certificate	Platinum Rating
2013/14	Project Management Achievement Awards 2013	Asia Pacific Federation of Project Management	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Winner (Project of The Year)
2013/14	Project Management Achievement Awards 2013	Asia Pacific Federation of Project Management	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Winner (Construction/Engineering)
2013/14	HKIPM Award 2013	Hong Kong Institute of Project Management	EHC Site Phase 5	Construction / Engineering	One of the winner projects

2013/14	China Green Building Label (CGBL)	China Green Building Label (CGBL)	Kai Tak Site 1A Phases 1 and 2	Certificate	3-Star
2013/14	HKIPM Project Management Achievement Awards 2013	Hong Kong Institute of Project Management	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Best Project of the Year 2013
2013/14	HKIPM Project Management Achievement Awards 2013	Hong Kong Institute of Project Management	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Commercial	Winner Category Construction/Engineering
2013/14	China Green Buildings Label	China Green Building Council	Redevelopment of Ex-Yuen Long Estate	Certificate	3-Star
2013/14	HKGBC, BEAM (4/04 ver.) New Buildings	BEAM Society Limited	Redevelopment of Yau Tong Estate Phase 4 (Domain)	Certificate	Platinum Rating

Register of Awards/Prizes received in 2014/15

Year	Award Title	Organiser	Project	Category	Award Attained
2014/15	China Green Building Label (CGBL)	China Green Building Label (CGBL)	Public Rental Housing Development at Ex-Yuen Long Estate	Residential	3-Star
2014/15	HKIPM Project Management Achievement Awards 2013	Hong Kong Institute of Project Management	Public Rental Housing Development at Eastern Harbour Crossing (EHC) Site Phase 5	Construction/Engineering	Winner
2014/15	Structural Excellence Award 2014	Hong Kong Institute of Engineers (Joint Structural Division)	Redevelopment of Lower Ngau Tau Kok Estate Phase 1	Residential	Commendation Merit
2014/15	Structural Excellence Award 2014	Hong Kong Institute of Engineers (Joint Structural Division)	Yau Tong Phase 4 (Domain)	Commercial	Commendation Merit
2014/15	Considerate Contractors Site Awards	Development Bureau	Public Rental Housing Development at Kwai Shing Circuit	Non-Public Works - New Works	Merit
2014/15	Quality Building Award 2014	Jointly organized by nine professional organizations in Hong Kong	Yau Lai Estate Phase 5	Hong Kong Residential (Multiple Buildings)	Grand Award
2014/15	BEAM Plus version 1.2 for New Buildings	Hong Kong Green Building Council Limited	The Public Rental Housing Development at San Po Kong	Residential	Platinum Rating
2014/15	FutureArc Green Leadership Award 2014	BCI Asia	Kai Ching Estate	Residential-- Multiple Houses	Certificate of Recognition
2014/15	BEAM Plus version 1.2 for New Buildings	Hong Kong Green Building Council Limited	The Public Rental Housing Development at San Po Kong	Residential	Platinum Rating
2014/15	Green Building Award 2014	HKGBC	Kai Ching Estate	New Building Category- Completed Buildings	Merit Award

2014/15	Procuring for Innovations with a "three-envelope system"- the HKHA's experience in applying integrated procurement	Asia Pacific Project Management Achievement Awards	Integrated Procurement Approach - Kai Tak Site 1B	Research	Commendation - Certificate
2014	Green Building Award 2014	Hong Kong Green Building Council	Public Rental Housing Development at Tung Chung Area 56	New Buildings Category - Buildings Under Construction	Merit Award
2014/15	Green Building Award 2014	Hong Kong Green Building Council	Conversion of Chai Wan Factory Estate to Public Rental Housing	Existing Buildings Category - Building Projects under Planning/ Design	Merit Award
2014/15	Asia Pacific Project Management Achievement Awards	Asia Pacific Federation of Project Management	Public Rental Housing Development at Kwai Shing Circuit	Project of the Year	Winner
2014/15	Asia Pacific Project Management Achievement Awards	Asia Pacific Federation of Project Management	Public Rental Housing Development at Kwai Shing Circuit	Construction / Engineering	Winner
2014/15	BEAM Plus version 1.2 for New Buildings	Hong Kong Green Building Council Limited	The Public Rental Housing Development at Anderson Road Sites A and B Phases 1 and 2	Residential	Platinum Rating
2014/15	BEAM Plus version 1.2 for New Buildings	Hong Kong Green Building Council Limited	The Public Rental Housing Development at Anderson Road Sites A and B Phases 1 and 2	Residential	Platinum Rating
2014/15	BEAM Plus version 1.2 for New Buildings	Hong Kong Green Building Council Limited	Public Rental Housing Development at Tung Chung Area 56	Residential	Platinum Rating
2014/15	China Green Building Design Label	China Green Building (Hong Kong) Council Limited	Conversion of Chai Wan Factory Estate to Public Rental Housing	Residential Building	3-Star

Annex 2

Page 7 of 7

2014/15	China Green Building Label (CGBL)	China Green Building Label (CGBL)	Public Rental Housing Development at Tung Chung Area 56	Residential	3-Star
2014/15	China Green Building Label (CGBL)	China Green Building (Hong Kong) Council Limited	The Public Rental Housing Development at Anderson Road Sites A and B Phases 1 and 2, Hong Kong	Residential	Certificate of Green Building Design Label
2014/15	China Green Building Label (CGBL)	China Green Building Label (CGBL)	Public Rental Housing Development at San Po Kong	Residential	3-Star