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30 April 2007

Ms Rosalind MA
Clerk to Public Works Subcommittee
Finance Committee
Legislative Council Building
8 Jackson Road
Central
(By Fax: 2869 6794)

Dear Ms Ma,

Public Works Subcommittee

Follow-up to meeting on 18 April 2007

I refer to your letter of 20 April 2007 and set out below supplementary information as requested by members.

- (a) PWSC(2007-08)9 – At the request of Hon LEE Wing-tat, the Hospital Authority (HA)/the Administration undertook to provide a summary record of the consultation exercises conducted with the patients' groups during the planning of the proposed project, with information on whether the views had/had not been taken forward as well as the explanations for not taking forward some of the views received.

As hospitals are important community facilities, the HA would seek the views of relevant stakeholders during the planning stage and would try to incorporate their views as far as possible. The Caritas Medical Centre (CMC) conducted a study in August 2004, to solicit users' views and expectations towards the proposed phase 2 of the redevelopment of CMC. Focus group discussions with representatives from hospital users, patient organizations, social service agencies and community leaders, were held. The groups/organizations who attended the group discussions were providing services to residents in the vicinity of the CMC and were very familiar with CMC's services. All the views/suggestions raised by the representatives have been incorporated in the design of the proposed project. A summary of views/suggestions collected and the list of participants of the focus group discussions are at Annexes A and B respectively.

- (b) PWSC(2007-08)9 and 10 – At the request of Hon LEE Wing-tat, the HA/the Administration undertook to provide information on the energy efficiency facilities/measures to be installed/implemented in the proposed works and the extent to which these facilities/measures would reduce energy consumption.

Hospital operation, by its inherent nature, is energy consuming. Apart from the 24-hour operation, there are stringent infectious disease control and temperature requirements which consume more electricity than most other types of buildings. In addition, the nature of hospital also affects the level of energy consumption. For example, acute hospitals with operating theatres or isolation wards will consume more energy than convalescent hospitals. Because of all these variables, it is impossible or impracticable to set benchmark on energy consumption levels in the HA hospitals. However, the HA is conscious to reduce energy consumption levels and will take the opportunities when new or improvement projects are being planned to examine and identify all potential areas for energy conservation and reduction.

The HA has proposed to install/implement energy efficiency facilities/measures as listed in Annex C at the CMC to reduce energy consumption levels. The HA estimated that installing/implementing these facilities/measures would reduce the annual energy consumption level from about 26,000,000 kWh (i.e. without the facilities/ measures) to about 21,000,000 kWh (i.e. a reduction of 5,000,000 kWh).

As regards the Yan Chai Hospital redevelopment project, subject to funding approval, the HA would proceed to conduct site investigation, building survey and detailed design of the new hospital block and relevant facilities. It is therefore impossible for the HA to advise at this stage on the exact energy efficiency facilities/measures to be installed/implemented and the level of energy reduction. However, details would be considered and finalized in the detailed design of the new hospital block.

Yours sincerely,

(Ms Ernestina Wong)
for Secretary for Health, Welfare and Food

c.c. Secretary for Financial Services and the Treasury
(Attn: Mr Jack Chan)

**Summary of views/suggestions of Representatives
raised in the Focus Group Discussion**

Views/suggestions of Representatives	Incorporation of Views/suggestions in the Design of the Project
1) On accessibility of services	
<ul style="list-style-type: none"> ▪ To improve the signage system, by installing light screens / boards and marking direction signs on the floor; and to widen the entrance with automatic doors. ▪ To install lifts and escalators to enable faster flow of people. ▪ To install extensive handrails along the corridor. ▪ To install barrier-free facilities. 	<ul style="list-style-type: none"> ▪ A clear signage system and proper patient access will be incorporated in the new ambulatory/rehabilitation block (new block) to be constructed under the proposed redevelopment project. ▪ Both lifts and escalators have been incorporated in the final detailed design. ▪ Handrails have been incorporated in the final detailed design and will be provided in patient circulation areas. ▪ Proper barrier-free facilities, such as ramps, disabled toilets and disabled counters etc, have been incorporated in the final detailed design.
2) On general facilities	
<ul style="list-style-type: none"> ▪ To use bright and joyful colours to create a warm and happy atmosphere in the main concourse of the new block and the Specialist Out-patient clinic (SOPC). ▪ To install light screens / boards for broadcasting announcement to patients. ▪ To provide space for accommodating wheelchairs and station hospital ambassadors in the main concourse of the new block. 	<ul style="list-style-type: none"> ▪ The suggestion will be incorporated in the interior design of the new block as far as possible. ▪ A comprehensive Patient Flow Management System will be installed in the SOPC for better control of patient flow and effective information flow. ▪ Wheelchair parking spaces have been incorporated in the final detailed design of the new block. Reception facilities will also be provided in the

Views/suggestions of Representatives	Incorporation of Views/suggestions in the Design of the Project
<ul style="list-style-type: none"> ▪ To consider providing one-stop services, e.g. shroff and pharmacy on the same floor or at the same counter. 	<p>main concourse to provide enquiry service.</p> <ul style="list-style-type: none"> ▪ One-stop services will be provided as far as possible.
<ul style="list-style-type: none"> ▪ To provide sufficient seats and allow small queue next to the consultation rooms. ▪ To provide large waiting area and broadcast health education programmes for patients. ▪ To inform patients of the designated consultation room right after their registration. ▪ To consider new design of gymnasiums with windows at occupational therapy and physiotherapy sections. ▪ To give priority to the disabled patients at the pharmacy. 	<ul style="list-style-type: none"> ▪ Sufficient space and seats have been incorporated in the final detailed design and will be provided in the SOPC to accommodate patient queue. ▪ AV equipment and display screens will be provided in the SOPC waiting areas for broadcasting health education programmes. ▪ A Patient Flow Management System will be installed to enhance information flow between patients and the SOPC. ▪ We have incorporated in the final detailed design gymnasiums with modern design and large windows for natural lighting. ▪ Special counters at the pharmacy for disabled patients have been incorporated in the final detailed design of the new block.
<p>3) On other facilities for patients</p>	
<ul style="list-style-type: none"> ▪ To improve toilet facilities and provide drinking fountains, sterilization facilities and kiosks at convenient locations. ▪ To place the patient resource centre at the same floor of the SOPC or pharmacy. 	<ul style="list-style-type: none"> ▪ Relevant facilities have been incorporated in the final detailed design. ▪ The SOPC comprises clinics of different specialties and may occupy more than one floor. We are planning to place the patient resource

Views/suggestions of Representatives	Incorporation of Views/suggestions in the Design of the Project
<ul style="list-style-type: none"> ▪ To provide exhibition boards and counters for display of posters and distribution of pamphlets. ▪ To provide information on hospital facilities, dietetic information, diseases management, interpersonal relationship and health care education. ▪ To invite patient organizations to set up counters at the SOPC to meet the needs of patients. 	<p>centre on the same floor of the SOPC (Eye) and near to the SOPC (Medical & Surgical) and pharmacy.</p> <ul style="list-style-type: none"> ▪ Relevant facilities have been incorporated in the final detailed design. ▪ Relevant information will be provided in the patient resources centre. ▪ Counters for volunteer/patient organizations have been incorporated in the final detailed design at the SOPC to provide services to patients.

List of participants of Focus Group Discussions

(A)	Representatives of hospital users / patients
(B)	<p>Representatives of social service agencies:</p> <ol style="list-style-type: none"> 1. Caritas Elderly Centre – Sham Shui Po 2. Hong Kong Young Women’s Christian Association Chi Po Neighbourhood Elderly Centre 3. Hong Kong Association of Senior Citizens 4. Hong Kong Family Welfare Society West Kowloon (Lai Kok) Centre 5. Hong Kong Workers Health Centre 6. YWCA Wan Wah Care of Attention Home for the Elderly 7. New Life Psychiatric Rehabilitation Association 8. Hong Kong Christian Service
(C)	<p>Representatives of patient organizations</p> <ol style="list-style-type: none"> 1. Hong Kong Association of Ankylosing Spondylitis 2. The Salvation Army The Carer Service 3. Hong Kong Association of Parkinson’s Disease 4. The Hong Kong Stroke Association 5. Hong Kong Association of Glaucoma
(D)	Members of Sham Shui Po District Council

Redevelopment of Caritas Medical Centre, phase 2
Energy Efficiency Facilities/Measures to be installed/implemented

	Energy Efficiency Facilities/Measures	Description	Estimated energy saved per year (kWh)
1	Heat pump system	Heat pump supplies heat for heating system and hot water used in showers, basins, sinks, etc. The heat pump system is more energy efficient than other heating options such as electricity or town gas.	1,375,000
2	Control the supply of conditioned air and chilled water	The HA will monitor closely the air temperature, air flow rate and outflow requirement, etc in the building, to assess the demand for conditioned air and chilled water of the building. By installing air handling system with variable air volume and water pumps with variable speed drive, the supply of conditioned air and chilled water can be automatically adjusted according to fluctuation in demand, thus reducing energy wasted in excessive air cooling and water pump operation.	664,000
3	Control the supply of fresh air	The HA will monitor closely the air quality and concentration of carbon dioxide (CO ₂), to assess the demand for fresh air and adjust the supply accordingly. For example, during off-peak hours, the concentration of CO ₂ at the carpark will be lower and therefore correspondingly less need for supply of fresh air through the ventilation system, hence reducing energy consumption of the ventilation system.	125,000
4	Recirculation system of fresh air at operating theatres and fever rooms	The recirculation system enables the recirculation of air supplied to operating theatres and fever rooms when they are not in use. The system saves energy used for air-cooling.	50,000

	Energy Efficiency Facilities/Measures	Description	Estimated energy saved per year (kWh)
5	Use of daylight and lighting control system	Use of daylight will be maximized so as to reduce electricity consumption. At the same time, lighting control system with photoelectric sensors, which could switch on/off lighting according to the amount daylight, will be installed.	158,000
6	Building fabric with low heat transmission	While maximizing the use of natural lighting, the HA will use building fabric with low heat transmission, thus reducing the demand on cooling inside the building and save energy.	670,000
7	Heat exchangers	With heat exchangers, the cooler exhaust emitted from inside of the building could be used to cool down the incoming warmer air from outdoors. The energy used for cooling incoming outdoor air could therefore be reduced.	200,000
8	Zoning of lighting fixtures	Zoning of lighting fixtures enables flexible provision of lighting to different zones. During off-peak hours, excessive lighting could be reduced by switching-off the lights in zones where lighting is not required.	65,000
9	Infra-red motion detectors	The infra-red motion detectors can detect whether the room is occupied and automatically switches off the lighting when the room is not in use.	50,000
10	To enhance the energy efficiency of the electric equipment	Electric equipment with higher energy efficiency, such as high-efficiency electric motors for fans and pumps of the air conditioning system, T5 fluorescent light tubes and electronic ballasts, will be installed to reduce energy consumption. The overall efficiency of the power supply network of the building will also be enhanced by installation of the power factor correction and harmonic filtering equipment.	1,570,000

	Energy Efficiency Facilities/Measures	Description	Estimated energy saved per year (kWh)
11	Lift traffic management system	The operation period of lifts could be programmed with the lift traffic management system. A portion of the lifts could be switched off during off-peak hours to save energy. Variable voltage variable frequency drive, which is an energy efficiency drive system for lifts, will also be installed to reduce energy consumption of lifts.	120,000
Total			5,047,000 or <u>5,000,000</u> (say)