

**Fitting Out Requirements of Building Services Installations for
New Integrated Rehabilitation Services Centre (Day Training Part)
at G/F Mei King House, Mei Tin Estate, Shatin
(Planned Capacity : 50-P DAC, 50-P IVRSC (30-P SW and 20-P SE))**

Accommodation	Requirements	
1. Office for Oi/c Workshop Manager	(a) Lighting : (i) General fluorescent fittings.	
	(b) Power : (i) 2 nos. 13A switched sockets for general purpose. (ii) Necessary power supply for air conditioner. (iii) 2 nos. 13A switched sockets near the computer data point for one set of computer equipment.	
		(c) Air-Conditioning : (i) Required.
		(d) Telephone Point : (i) 2 nos. (for 1 direct line and 1 fax line).
	(e) Computer Data Point : (i) 1 no.	
	(f) PA System : (i) Speakers required.	
2. General Office / Staff Room	(a) Lighting : (i) General fluorescent fittings.	
	(b) Power : (i) 13A switched sockets for general purpose. (at least 1 no. per 6.5m ² in area). (ii) Necessary power supply for air conditioner. (iii) Necessary power supply for emergency call bell system. (iv) Necessary power supply for PA system. (v) 2 nos. 13A switched sockets near each computer data point for computer equipment (total 2 sets).	

General Office / Staff Room (cont ...)	(c)	Air- Conditioning	:	(i)	Required.
	(d)	Telephone Point	:	(i)	4 nos.
	(e)	Computer Data Point	:	(i)	2 nos.
	(f)	Emergency Call Bell	:	(i)	1 no. emergency call bell panel with red indication lights and buzzer.
	(g)	PA System	:	(i)	PA system control panel with zoning. The PA system shall incorporate CD player for playback of music
3. Sitting Room / Peer Room / Conference Room	(a)	Lighting	:	(i)	General fluorescent fittings.
	(b)	Power	:	(i)	13A switched sockets for general purpose (at least 1 no. per 6.5m ² in area).
				(ii)	Necessary power supply for oscillating fans.
				(iii)	Necessary power supply for air conditioners.
	(c)	Air- Conditioning	:	(i)	Required with heating facilities.
	(d)	PA System	:	(i)	Speakers required.
(e)	Emergency Call Bell	:	(i)	1 no. call bell push.	
4. Reception Area	(f)	Appliances	:	(i)	Ø400mm oscillating fans (about 1 no. per 10m ² in area).
	(a)	Lighting	:	(i)	General fluorescent fittings.
				(b)	Power
				(ii)	Necessary power supply for oscillating fans.
				(iii)	Necessary power supply for air conditioners.
				(iv)	Necessary power supply for door bell system.
Reception Area	(c)	Air-	:	(i)	Required.

(cont ...)

Conditioning

- (d) Telephone Point : (i) 1 no.
- (e) PA System : (i) Speakers required.
- (f) Door Bell : (i) 1 no. push button at main entrance linked to the bell installed in the Reception.
- (g) Appliances : (i) ϕ 400mm Oscillating fans (about 1 no. per 10m² in area).
- 5. Interview Room
 - (a) Lighting : (i) General fluorescent fittings.
(ii) 1 no. red indicating light on top of door.
 - (b) Power : (i) 13A switched sockets for general purpose (at least 1 no. per 6.5m² in area).
(ii) Necessary power supply for oscillating fans.
(iii) Necessary power supply for air conditioners.
 - (c) Air-Conditioning : (i) Required with heating facilities.
 - (d) Emergency Call Bell : (i) 1 no. call bell push.
 - (e) Appliances : (i) ϕ 400mm Oscillating fans (about 1 no. per 10m² in area).
- 6. Workshop
 - (a) Lighting : (i) General fluorescent fittings.
 - (b) Power : (i) 13A switched sockets (at least 1 no. per 6.5m² in area) for general use and light industrial machines.
(ii) Necessary power supply for oscillating fans.
(iii) Necessary power supply for air conditioners.
(iv) 6 nos 30A SP&N isolator for machines or equipment.
 - (c) Air-Conditioning : (i) Required with heating facilities.

Workshop (cont ...)	(d)	PA System	:	(i)	Speakers required.
	(e)	Emergency Call Bell	:	(i)	2 nos. call bell push.
	(f)	Appliances	:	(i)	Ø400mm Oscillating fans (about 1 no. per 10m ² in area).
7. Training Room (3 nos.)	(a)	Lighting	:	(i)	General fluorescent fittings.
	(b)	Power	:	(i)	13A switched sockets (at least 1 no. per 6.5m ² in area).
				(ii)	Necessary power supply for oscillating fans.
				(iii)	Necessary power supply for air conditioners.
				(iv)	In one of the three training rooms, 2 nos. 13A switched sockets for each computer data point shall be provided (total 3 sets).
	(c)	Air- Conditioning	:	(i)	Required with heating facilities.
	(d)	Computer Data Point	:	(i)	3 nos. in one of the training rooms.
	(e)	PA System	:	(i)	Speakers required.
	(f)	Emergency Call Bell	:	(i)	1 no. call bell push.
	(g)	Appliances	:	(i)	Ø400mm Oscillating fans (about 1 no. per 10m ² in area).
8. Dining / Multi- purpose / Social Training Room / Living Unit	(a)	Lighting	:	(i)	General fluorescent fittings.
	(b)	Power	:	(i)	Appropriate number of 13A switched sockets at skirting level.
				(ii)	Necessary power supply for oscillating fans.
				(iii)	Necessary power supply for air conditioners.
				(iv)	3 nos. 13A switched sockets near each TV/FM point (total 2 points).
(c)	Air-	:	(i)	Required with heating facilities.	

		Conditioning			
	Dining / Multi-purpose / Social Training Room / Living Unit (cont ...)	(d) Telephone Point	:	(i)	1 no.
		(e) PA System	:	(i)	Speakers required.
		(f) Emergency Call Bell	:	(i)	2 nos. call bell push.
		(g) BRI	:	(i)	2 nos. TV/FM points.
		(h) Appliances	:	(i)	Ø400mm Oscillating fans (about 1 no. per 10m ² in area).
9.	Store Room for Tools / Raw Materials and Finished Products	(a) Lighting	:	(i)	General fluorescent fittings.
		(b) Power	:	(i)	2 no. 13A switched sockets for general purpose.
				(ii)	Necessary power supply for 1 no. extract fan.
		(c) Mechanical Ventilation	:	(i)	1 no. extract fan.
10.	General Store	(a) Lighting	:	(i)	General fluorescent fittings.
		(b) Power	:	(i)	1 no. 13A switched sockets for general purpose.
				(ii)	Necessary power supply for 1 no. extract fan.
		(c) Mechanical Ventilation	:	(i)	1 no. extract fan.
11.	Kitchen A	(a) Lighting	:	(i)	Corrosion resistant fluorescent fittings.
		(b) Power	:	(i)	1 no. 13A switched sockets for general purpose at skirting level.
				(ii)	Necessary power supply for oscillating fans.
				(iii)	Necessary power supply for extract fan.
				(iv)	2 nos. 13A switched sockets for electrical appliances at 200mm above preparation table.
				(v)	2 nos. 13A switched sockets for

Kitchen
(cont ...)

- refrigerators at 1350mm AFFL.
- (vi) 2 nos. 13A switched sockets for rice cookers at 200 mm above preparation table.
- (vii) 1 no. 13A fused connection unit c/w 20A double switch for 10-litre storage type sink water heater.
- (viii) 1 no. 15A switched sockets for water boiler at 200 mm above preparation table.
- (ix) Necessary power supply for the Chinese cooking range and Chinese food steamer.
- (x) Necessary power supply for the hydro-vent kitchen exhaust system and the F.A. intake fan.

- (c) Mechanical Ventilation : (i) 1 no. extract fan.
- (d) Kitchen Exhaust System : (i) Hydro-vent kitchen exhaust system interlocked with the F.A. intake fan.
- (e) Gas Supply : (i) Gas supply installation c/w meter and piping accessories connected to the following kitchen equipment:
1 no. Chinese cooking range (single unit)
1 no. Chinese food steamer (single unit)
1 no. stock pot unit (single unit)
- (f) PA System : (i) Speakers required.
- (g) Appliances : (i) ϕ 400mm oscillating fans (about 1 no. per 10m² in area).
- : (ii) 1 no. 3kW electric water boiler.
- : (iii) 1 no. 10-litre storage type electric sink water heater.
- : (iv) 1 no. Chinese cooking range (single unit).
- : (v) 1 no. Chinese food steamer (single unit).
- : (vi) 1 no. stock pot unit (single unit).

Kitchen
(cont ...)

			:	(vii)	A meat freezer and vegetable refrigerator combine unit (600 Litres approx).
11.	Kitchen Store B	(a)	Lighting	:	(i) General fluorescent fittings.
		(b)	Power	:	(i) 1 no. 13A switched sockets for general purpose.
				:	(ii) Necessary power supply for 1 no. extract fan.
		(c)	Mechanical Ventilation	:	(i) 1 no. extract fan.
12.	Pantry	(a)	Lighting	:	(i) General fluorescent fittings.
		(b)	Power	:	(i) 1 no. 13A switched sockets for general purpose at skirting level.
				:	(ii) Necessary power supply for oscillating fan.
				:	(iii) Necessary power supply for extract fan.
				:	(iv) 2 nos. 13A switched sockets for appliances at 200 mm above preparation table.
				:	(v) 1 no. 13A switched sockets for refrigerator at 1350mm AFFL.
				:	(vi) 1 no. 15A switched sockets for water boiler at 200 mm above preparation table.
		(c)	Mechanical Ventilation	:	(i) 1 no. extract fan.
		(d)	PA System	:	(i) Speakers required.
		(e)	Appliances	:	(i) ϕ 400mm oscillating fans (about 1 no. per 10m ² in area).
				:	(ii) 1 no. 3kW electric water boiler.
13.	Sick Bay / Individualised Training / Nurse Duty Room	(a)	Lighting	:	(i) General fluorescent fittings.
		(b)	Power	:	(i) 13A switched sockets (at least 1 no. per 6.5m ² in area).
	Sick Bay / Individualised			:	(ii) Necessary power supply for oscillating fans.

Training / Nurse
Duty Room
(cont ...)

- (iii) Necessary power supply for air conditioners.
- (iv) 2 nos. 13A switched sockets for refrigerator and sterilizer at 1350mm AFFL.
- (v) 2 nos. 13A switched sockets above bed head.
- (vi) Necessary power supply for extract fan.
- (vii) 1 no. 13A fused connection unit c/w 20A D.P. switch with pilot light for 10 lit. storage type sink water heater.

(c) Air-Conditioning : (i) Required with heating facilities.

(d) Mechanical Ventilation : (i) 1 no. extract fan.

(e) Telephone Point : (i) 1 no.

(f) Emergency Call Bell : (i) 1 no. emergency call bell push.

(g) PA System : (i) Speakers required.

(h) Appliances : (i) 1 no. ϕ 400mm oscillating fan.

(ii) 1 no. 10 lit. sink water heater.

14. Trainee Toilet/ Shower
(2 nos. toilet, one each for male and female)
- (a) Lighting : (i) Corrosion resistant fluorescent fittings.
 - (b) Power : (i) Necessary power supply for 1 no. extract fan.
 - (ii) Necessary power supply for radiators / fan heaters for shower cubicles.
 - (iii) 1 no. 13A fused connection unit with switch and pilot light for hand dryer.

(c) Mechanical Ventilation : (i) 1 no. extract fan.

Trainee Toilet/ Shower (d) PA System : (i) Speakers required.

- (2 nos. toilet, one each for male and female)
(cont ...)
- (e) Emergency Call Bell : (i) 1 no. emergency call bell push near entrance and in each W.C. compartment and connected to control panel in office.
- (f) Gas : (i) Gas supply to 27 kW (approx.) gas water heaters for showers.
- (g) Appliances : (i) 1 no. hand dryer.
- (ii) 1.8kW/2kW wall mounted radiator / fan heater (quantity to suit the number of shower cubicles).
- (iii) 27 kW (approx.) gas water heater (1 no. for each shower cubicle). If gas supply is not available, 18kW instantaneous type electric water heater should be provided instead.
15. Staff Toilet (2 nos., one each for male and female)
- (a) Lighting : (i) Corrosion resistant fluorescent fittings.
- (b) Power : (i) Necessary power supply for 1 no. extract fan.
- (ii) 1 no. 13A fused connection unit with switch and pilot light for hand dryer.
- (c) Mechanical Ventilation : (i) 1 no. extract fan.
- (e) PA System : (i) Speakers required.
- (f) Appliances : (i) 1 no. hand dryer.
16. Circulation Area
- (a) Lighting : (i) General fluorescent fittings.
- (b) Power : (i) Appropriate number of 13A switched sockets at skirting level.
- (ii) Power supply for electric shutter at main entrance.
- (c) PA System : (i) Speakers required.
- (d) Exit Sign : (i) To suit statutory requirements.
- (e) Illumination of Signage : (i) Appropriate lighting required.
17. Disabled Toilet A (in common area)
- (a) Lighting : (i) Corrosion resistant fluorescent fittings.

with shower)	(b) Power	:	(i)	Necessary power supply for 1 no. extract fan.
			(ii)	Necessary power supply for radiators / fan heaters for shower cubicles.
	(c) Mechanical Ventilation	:	(i)	1 no. extract fan.
	(d) Emergency Call Bell	:	(i)	1 no. emergency call bell push
	(e) PA System	:	(i)	Speakers required.
	(f) Appliances	:	(i)	1.8kW/2kW wall mounted radiator / fan heater (quantity to suit the number of shower cubicles).
			(ii)	27 kW (approx.) gas water heater (1 no. for each shower cubicle). If gas supply is not available, 18kW instantaneous type electric water heater should be provided instead.
17. Disabled Toilet B (in General Office)	(a) Lighting	:	(i)	Corrosion resistant fluorescent fittings.
	(b) Power	:	(i)	Necessary power supply for 1 no. extract fan.
			(ii)	Necessary power supply for radiators / fan heaters for shower cubicles.
			(iii)	1 no. 13A fused connection unit with switch and pilot light for hand dryer.
	(c) Mechanical Ventilation	:	(i)	1 no. extract fan.
	(d) Emergency Call Bell	:	(i)	1 no. emergency call bell push
	(e) PA System	:	(i)	Speakers required.
	(f) Appliances	:	(i)	1 no. hand dryer.

Notes:

1. Illumination levels shall follow the recommendations given in the Chartered Institution of Building Services Engineers (CIBSE) Lighting Guides.
2. Fluorescent lighting fittings shall be equipped with electronic ballasts and T5/T8 fluorescent tubes complete with high performance low glare aluminum louver or acrylic prismatic diffuser. Lighting switches shall be mounted at 1100mm above finished floor level unless otherwise specified.
3. Socket outlets shall be 13A for general purpose, switched type, installed at 500mm above finished floor level unless otherwise specified.
4. Oscillating fans shall be of 400mm diameter with speed regulator, wall or ceiling mounted to suit the layout; they shall be connected to 2A fused connection units and separately controlled by 5A double pole switches.
5. Window-type or split-type air-conditioners with reverse cycle function are recommended for rooms entitled with both cooling and heating provisions. As such, the provision of radiators / fan heaters is not necessary. The air-conditioners shall be connected to terminal blocks and separately controlled by double pole switches of appropriate rating with pilot light.
6. Radiators / fan heaters shall be connected to 13A fused connection units and separately controlled by 20A double pole switches with pilot light.
7. Mechanical exhaust fans shall be connected to fused connection units and separately controlled by double pole switches of appropriate rating with pilot light.
8. Fire services installations shall be provided in compliance with the statutory requirements. Visual fire alarm system shall be provided.
9. The type of fuels (e.g. gas or electricity) quoted for the appliances (e.g. *gas* water heater) in these fitting out requirements is a recommendation only. The Operator / Authorised Person can have his own choice provided that the appliances selected have the same performance as the ones quoted in these fitting out requirements.

