

Fitting Out Requirements of Building Services Installations for
New Supported Hostel for Mentally Handicapped Persons {SHOS(MH)}
at Unit 2, G/F, Shin Tsui House, Fu Shin Estate
(Capacity : 18 places)

Accommodation	Requirements			
1. Warden room	(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 .
	(c) Air-Conditioning	:	(i)	Required.
	(d) Telephone Point	:	(i)	1 no.
(e) Computer Data Point	:	(i)	1 no.	
2. General Office	(f) PA System	:	(i)	Speakers required.
	(a) Lighting	:	(i)	General fluorescent fittings.
			(i)	13A switched sockets for general purpose. (at least 1 no. per 6.5m ² of floor area).
			(ii)	Necessary power supply for air conditioner.
			(iii)	Necessary power supply for emergency call bell system.
	(b) Power	:	(iv)	Necessary power supply for PA system.

- (v) 2 nos. 13A switched sockets near each computer data point.
- (c) Air-Conditioning : (i) Required.
- (d) Telephone Point : (i) 5 nos. including 1 no for fax.
- (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. Living Units
- (a) Lighting : (i) General fluorescent fittings.
- : (ii) 1 no. of foot light near the door in each unit.
- (b) Power : (i) 13A switched sockets for general purpose (at least 1 no. per 6.5m² of floor 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 near the door in each unit.
- (f) Appliances : (i) 400mm dia. Oscillating fans (about 1 no. per 10m² of floor area).
- 4. Staff Barrack Room
- (a) Lighting : (i) General fluorescent fittings.
- (b) Power : (i) 13A switched sockets for general purpose (at least 1 no. per 6.5m² of floor area).
- (ii) Necessary power supply for oscillating fans.

			(iii)	Necessary power supply for air conditioners.	
	(c)	Air- Conditioning	:	(i) Required.	
	(d)	Telephone Point	:	(i) 1 no.	
	(e)	Appliances	:	(i) 400mm dia. Oscillating fans (about 1 no. per 10m ² of floor area).	
5.	Dining/ Recreation Room	(a)	Lighting	:	(i) General fluorescent fittings.
		(b)	Power	:	(i) 13A switched sockets (at least 1 no. per 6.5m ² of floor area).
				(ii)	Necessary power supply for oscillating fans.
				(iii)	Necessary power supply for air conditioners.
				(iv)	3 nos. 13A switched sockets near the TV/FM point.
	(c)	Air- Conditioning	:	(i) Required with heating facilities.	
	(d)	Telephone Point	:	(i) 1 no.	
	(e)	PA System	:	(i) Speakers required.	
	(f)	Emergency Call Bell	:	(i) 1 no. call bell push.	
	(g)	BRI	:	(i) 1 no. TV/FM points.	
	(h)	Appliances	:	(i) 400mm dia. Oscillating fans (about 1 no. per 10m ² of floor area).	
6A.	Small Group Room	(a)	Lighting	:	(i) General fluorescent fittings.
		(b)	Power	:	(i) 13A switched sockets (at least 1 no. per 6.5m ² of floor area).
				(ii)	Necessary power supply for oscillating fans.

- (iii) Necessary power supply for air conditioners.
 - (iv) 2 nos. 13A switched sockets near the computer data point.
 - (v) 3 nos. 13A switched sockets near the TV/FM point.
- (c) Air-Conditioning : (i) Required with heating facilities.
- (d) Computer Data Point : (i) 1 no.
- (e) PA System : (i) Speakers required.
- (f) Emergency Call Bell : (i) 1 no. call bell push.
- (g) BRI : (i) 1 no. TV/FM point.
- (h) Appliances : (i) 400mm dia. Oscillating fans (about 1 no. per 10m² of floor area).
- 6B. 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 of floor area).
- (ii) Necessary power supply for 1 no. oscillating fan.
- (iii) Necessary power supply for air conditioner.
- (c) Air-Conditioning : (i) Required with heating facilities.
- (d) Emergency Call Bell : (i) 1 no. call bell push.
- (e) Appliances : (i) 400mm dia. Oscillating fans (about 1 no. per 10m² of floor area).
7. Kitchen & Kitchen Store
- (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 fan.
- (iii) Necessary power supply for extract fan.
- (iv) 2 nos. 13A switched sockets for electrical appliances at 200mm above preparation table.
- (v) 1 no. 13A switched socket for refrigerator 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) 2 nos. 13A fused connection units c/w 20A double switches for domestic exhaust hoods.
- (c) Mechanical Ventilation : (i) 1 no. extract fan.
- (d) Kitchen Exhaust System : (i) Two nos. domestic type exhaust hoods over cooking bench.
- (e) Gas : (i) Gas supply installation c/w meter and piping accessories connected to the following kitchen equipment:
2 nos. domestic type double-ring gas burners.
- (f) PA System : (i) Speakers required.
- (g) Appliances : (i) 400mm dia. oscillating fans (about 1 no. per 10m² of floor area).
- : (ii) 1 no. 3kW electric water boiler.

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| | | | : | (iii) | 1 no. 10-litre storage type electric sink water heater. |
| | | | : | (iv) | 2 nos. domestic type double-ring gas burners. |
| 8. | Laundry & Linen Store | (a) | Lighting | : | (i) General fluorescent fittings. |
| | | (b) | Power | : | (i) 13A switched sockets (at least 1 no. per 6.5m ² of floor area). |
| | | | | : | (ii) Necessary power supply for 1 no. extract fan. |
| | | | | : | (iii) Necessary power supply for 1 no. oscillating fan. |
| | | | | : | (iv) Necessary power supply at 1350mm above finished floor level for industrial type washing machine and drying machines. |
| | | (c) | Mechanical Ventilation | : | (i) 1 no. extract fan. |
| | | (d) | Appliances | : | (i) 1 no. 400mm dia. oscillating fan. |
| | | | | : | (ii) 1 no. 23kg industrial type washing machine. |
| | | | | : | (iii) 1 no. 13kg industrial type tumble-dryer. |
| 9. | Toilet cum Shower for Residents | (a) | Lighting | : | (i) General fluorescent fittings. |
| | | (b) | Power | : | (i) Necessary power supply for 1 no. extract fan. |
| | | | | : | (ii) Necessary power supply for fan heaters for shower cubicles. |
| | | (c) | Mechanical Ventilation | : | (i) 1 no. extract fan. |
| | | (d) | Emergency Call Bell | : | (i) 1 no. emergency call bell push at near entrance and in each W.C. compartment and connected to control panel in office. |
| | | (e) | PA System | : | (i) Speakers required. |

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| | (f) | Gas | : | (i) | Gas supply to 27 kW (approx.) gas water heaters for showers. | | | |
| | (g) | Appliances | : | (i) | Wall mounted fan heater (quantity to suit the number of shower cubicles). | | | |
| | | | | (ii) | 27 kW (approx.) gas water heater (1 no. for each shower cubicle). | | | |
| 10. | | Disabled Toilet cum Shower for Residents | | (a) | Lighting | : | (i) | General fluorescent fittings. |
| | | | | (b) | Power | : | (i) | Necessary power supply for 1 no. extract fan. |
| | | | | | | | (ii) | Necessary power supply for fan heaters for shower cubicles. |
| | | | | (c) | Mechanical Ventilation | : | (i) | 1 no. extract fan. |
| | | | | (d) | Emergency Call Bell | : | (i) | 1 no. emergency call bell push at near entrance and in each W.C. compartment and connected to control panel in office. |
| | | | | (e) | PA System | : | (i) | Speakers required. |
| | | | | (f) | Gas | : | (i) | Gas supply to 27 kW (approx.) gas water heaters for showers. |
| | | | | (g) | Appliances | : | (i) | Wall mounted fan heater (quantity to suit the number of shower cubicles). |
| | | | | | | | (ii) | 27 kW (approx.) gas water heater (1 no. for each shower cubicle). |
| 11. | | Disabled Toilet cum Shower for Staff (unisex) | | (a) | Lighting | : | (i) | General fluorescent fittings. |
| | | | | (b) | Power | : | (i) | Necessary power supply for 1 no. extract fan. |
| | | | | | | | (ii) | 1 no. 13A fused connection unit for hand dryer and separately controlled by DP switch with pilot light outside the toilet. |

	(c)	Mechanical Ventilation	:	(i)	1 no. extract fan.
	(d)	Emergency Call Bell	:	(i)	1 no. emergency call bell push at near entrance and in each W.C. compartment and connected to control panel in office.
	(e)	PA System	:	(i)	Speakers required.
	(f)	Gas	:	(i)	Gas supply to 27 kW (approx.) gas water heaters for showers.
	(g)	Appliances	:	(i)	1 no. hand dryer.
				(ii)	27 kW (approx.) gas water heater (1 no. for each shower cubicle).
12.	Circulation Areas	(a)	Lighting	:	(i) General fluorescent fittings.
				(ii)	Appropriate no. of foot lights along corridor in dormitory areas and near each Toilet.
		(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.

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 of batten type, using 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. For areas normally occupied by babies or young children, all socket outlets, lighting switches and fan regulators shall be installed at 1500mm AFFL.
5. 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.
6. 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 is not necessary. The air-conditioners shall be provided with terminal blocks and separately controlled by double pole switches of appropriate rating with pilot light.
7. Radiators/fan heaters shall be provided with 13A fused connection units and separately controlled by 20A double pole switches with pilot light.
8. Mechanical exhaust fans shall be provided with fused connection units and separately controlled by double pole switches of appropriate rating with pilot light.
9. Fire services installations shall be provided in compliance with the statutory requirements. Visual fire alarm shall be provided.
10. 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.