

**Fitting Out Requirements of Building Services Installations for
Unit 1-6, 9-16, G/F., High Block Wu Kwong House, Wu King Estate, Tuen Mun**

Accommodation (NOFA)	Requirements
1. Reception	<p>(a) Lighting : (i) General fluorescent fittings.</p> <p>(b) Power : (i) 13A switched sockets for general purpose (at least 1 no. per 6.5m² in area). (ii) Necessary power supply for air conditioner. (iii) Necessary power supply for door bell system.</p> <p>(c) Air-Conditioning : (i) Required.</p> <p>(d) Telephone Point : (i) 1 no.</p> <p>(e) Door Bell : (i) 1 no. push button at main entrance linked to the bell installed in the Reception.</p> <p>(f) PA System : (i) Speakers required.</p> <p>(g) Appliances : (i) 400mm dia. Oscillating fans (about 1 no. per 10m² in area).</p>
2. Office	<p>(a) Lighting : (i) General fluorescent fittings.</p> <p>(b) Power : (i) 13A switched sockets for general purpose. (at least 1 no. per 6.5m² in area). (ii) Necessary power supply for air conditioner. (iii) Necessary power supply for emergency call bell system, PA system and FS system. (iv) 2 nos. 13A switched sockets near each computer data point . (v) 13A switched sockets for fax machine and photocopier.</p> <p>(c) Air-Conditioning : (i) Required.</p>

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| | (d) | Telephone Point | : | (i) | 8 nos including 1 no. for fax machine. |
| | (e) | Computer Data Point | : | (i) | 7 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. | | Conference Room /Group Room / Lecture Room | | | |
| | (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) | 3 nos. 13A switched sockets near each TV/FM point. |
| | (c) | Air-Conditioning | : | (i) | Required with heating facilities. |
| | (d) | Telephone Point | : | (i) | 1 no. |
| | (e) | BRI | : | (i) | 1 no. TV/FM point |
| | (f) | PA System | : | (i) | Speakers required. |
| | (g) | Appliances | : | (i) | 400mm dia. oscillating fans (about 1 no. per 10m ² in area). |
| 4. | | Activity Area (w / IT Activity Room) | | | |
| | (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 air conditioners. |

- (iii) 2 nos. 13A switched sockets near each computer data point for computer equipment.
 - (iv) 3 nos. 13A switched sockets near each TV/FM point.
- (c) Air-Conditioning : (i) Required with heating facilities.
- (d) Telephone Point : (i) 1 no.
- (e) BRI : (i) 1 no. TV/FM point.
- (f) Appliances : (i) 400mm dia. Oscillating fans (about 1 no. per 10m² in area).
- (g) Computer Data Point : (i) 4 nos.
- (h) PA System : (i) Speakers required.
- (i) Emergency Call Bell : (i) 1 no. emergency call bell push in each activity room connected to control panel in office.
5. Interview Room
- (a) Lighting : (i) General fluorescent fittings.
- (ii) 1 no. red indicating light on top of door outside the room.
- (b) Power : (i) 13A switched sockets for general purpose (at least 1 no. per 6.5m² in area).
- (ii) Necessary power supply for air conditioner.
- (c) Air-Conditioning : (i) Required with heating facilities.
- (d) PA System : (i) Speakers required.
- (e) Emergency Call Bell : (i) 1 no. emergency call bell push connected to control panel in office.
6. Medical Consultation/
Nurse Duty Room/
Sick Bay
- (a) Lighting : (i) General fluorescent fittings.

- (b) Power : (i) 13A switched sockets for general purpose (at least 1 no. per 6.5m² in area).
- (ii) Necessary power supply for air conditioners.
- (iii) 2 nos. 13A switched sockets for refrigerator and sterilizer at 1350mm AFFL.
- (iv) 2 nos. 13A switched sockets above bed head.
- (v) Necessary power supply for extract fan.
- (vi) Necessary power supply for 10 lit. 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) Appliances : (i) 1 no. 10 lit. sink water heater.
- (g) PA System : (i) Speakers required.
- (h) Emergency Call Bell : (i) 1 no. emergency call bell push connected to control panel in office.
7. Physiotherapy/
Exercise Room
- (a) Lighting : (i) General fluorescent fittings.
- (b) Power : (i) 13A switched sockets (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) Appliances : (i) 400mm dia. Oscillating fans (about 1 no. per 10 m² in area).

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| | (e) | PA System | : | (i) | Speakers required. |
| | (f) | Emergency Call Bell | : | (i) | 1 no. emergency call bell push in each room connected to control panel in office. |
| 8. | | Occupational Therapy Area | | | |
| | (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) | 3 nos. 13A switched sockets near each TV/FM point. |
| | (c) | Air-Conditioning | : | (i) | Required with heating facilities. |
| | (d) | Appliances | : | (i) | 400mm dia. Oscillating fans (about 1 no. per 10m ² in area). |
| | (e) | BRI | | (i) | 1 no. TV/FM points |
| | (f) | PA System | : | (i) | Speakers required. |
| | (g) | Emergency Call Bell | : | (i) | 1 no. emergency call bell push connected to control panel in office. |
| 9. | | Activity of Daily Living Training Room. | | | |
| | (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. |
| | (c) | Air-Conditioning | : | (i) | Required with heating facilities. |
| | (d) | Appliances | : | (i) | 400mm dia. Oscillating fans (about 1 no. |

per 10 m² in area).

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| | (c) | PA System | : | (i) | Speakers required. |
| | (f) | Emergency Call Bell | : | (i) | 1 no. emergency call bell push connected to control panel in office. |
| 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. 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. |
| | | | | (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) | Mechanical Ventilation | : | (i) | 1 no. extract fan. |
| | (d) | PA System | : | (i) | Speakers required. |
| | (e) | Appliances | : | (i) | Ø400mm oscillating fans (about 1 no. per 10m ² in area). |
| | | | : | (ii) | 1 no. 3kW electric water boiler. |

			(iii)	1 no. 10 lit. sink water heater.
12.	Pantry 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.
13.	Staff Changing Room	(a)	Lighting	: (i) General fluorescent fittings.
		(b)	Power	: (i) 1 no. 13A switched sockets for general purpose.
				(ii) Necessary power supply for oscillating fan.
				(iii) Necessary power supply for 1 no. extract fan.
		(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).
14	Male Toilet	(a)	Lighting	: (i) Corrosion resistant fluorescent fittings.
		(b)	Power	: (i) Necessary power supply for 1 no. extract fan.
				(ii) Necessary power supply for hand dryer.
		(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)	Appliances	: (i) 1 no. hand dryer.
		(f)	PA System	: (i) Speakers required.
15	Female Toilet – disabled persons	(a)	Lighting	: (i) Corrosion resistant fluorescent fittings.

	(b)	Power	:	(i)	Necessary power supply for 1 no. extract fan.	
				(ii)	Necessary power supply for hand dryer.	
	(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)	Appliances	:	(i)	1 no. hand dryer.	
	(f)	PA System	:	(i)	Speakers required.	
16	Bath - disabled	(a)	Lighting	:	(i)	Corrosion resistant fluorescent fittings.
		(b)	Power	:	(i)	Necessary power supply for 1 no. extract fan.
		(c)	Mechanical Ventilation	:	(i)	1 no. extract fan.
		(d)	Emergency Call Bell	:	(i)	1 no. emergency call bell push 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.27 kW (approx.) gas water heater for bath.
17.	Meter Room	(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.
18.	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 if required.

- (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 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 are a recommendation only. The Operator / Authorized Person can have his own choice provided that the appliances selected have the same performance as the ones quoted in these fitting out requirements.

