

BIM-AM No.	BIM-AM EMSD System Name & Codes	BIM-AM EMSD Equipment Type ([^]): Level 1 equipment type ([*]): Not existed in the EMSD asset templates.	BIM-AM Version 2.0 EMSD Equipment Code	BIM-AM Version 3.0 EMSD Equipment Code	EMSD CCS Templates Available (Y - Yes)/ (G-Generaie Template)/ (N- No Template) Liaise with EMSD O&M team for the templates	BIM Object CAT Code (Codes of CIC Master List)	Functional Type (Codes of CIC Master List)	Omni Class Number	Provision of Asset Tag RFID tag with QR Code Label (M - Mandatory)	Provision of Asset Tag QR Code Label (M - Mandatory)	Provision of Zone Tag QR Code Label(M - Mandatory)
01	Lift and Escalator (LIFT)	Lift and Escalator ([^])	LAE	LIFT	Y	N/A		23-23 00 00	N/A		
01	Lift and Escalator (LIFT)	Electric Lifts (including the application for passenger lift, good lift, freight lift, vehicle lift, platform lift, stair-lift and dumbwaiter)	ELL	ELL	Y	SPQ	LAE	23-23 11 11 11	M (Note 1)		
01	Lift and Escalator (LIFT)	Hydraulic Lifts (including the application for passenger lift, good lift, freight lift, vehicle lift, platform lift, stair-lift and dumbwaiter)	HYL	HYL	Y	SPQ	LAE	23-23 11 11 11	M (Note 1)		
01	Lift and Escalator (LIFT)	Escalators / Passenger Conveyors	EPC	EPC	Y	SPQ	LAE	23-23 11 13	M (Note 2)		M
02	LV Switchboard (LVS)	LV Switchboard ([^]) (Note 9)	LVS	LVS	Y	ELQ	LAS	23-35 31 29 11	M		M
02	LV Switchboard (LVS)	Air Circuit Breaker (ACB)	ACB	ACB	Y	ELQ	LAS	23-35 29 11			M
02	LV Switchboard (LVS)	Automatic Transfer Switch	N/A	ATS	Y	ELF	SWC	23-35 37 11			M
02	LV Switchboard (LVS)	Battery (including battery charger)	BAT	BAT	Y	ELQ	LAS	23-35 21 00			M
02	LV Switchboard (LVS)	Capacitor	CAP	CAP	Y	ELQ	LAS	23-35 23 19 17			M
02	LV Switchboard (LVS)	Harmonic Filter	HAR	HAR	Y	ELQ	LAS	23-35 23 11 13			M
02	LV Switchboard (LVS)	Moulded Case Circuit Breaker (Open Space)	MCCB	MCCB	Y	ELQ	LAS	23-35 29 17			M
02	LV Switchboard (LVS)	Power Quality and Energy Management System (PQEMS)	PQM	PQM	Y	ELQ	LAS	23-35 25 11 11			M
03	Emergency Generator (EMG)	Generator ([^]) (Note 9)	GEN	EMG	Y	ELQ	EMG	23-35 11 00	M		M
03	Emergency Generator (EMG)	Alternator	ALT	ALT	Y	ELQ	EMG	23-35 11 13 13			M
03	Emergency Generator (EMG)	Battery	BAT	BAT	Y	ELQ	EMG	23-35 19 00			M
03	Emergency Generator (EMG)	Battery Charger	BAC	BATC	Y	ELQ	EMG	23-35 21 00			M
03	Emergency Generator (EMG)	Controller	CTR	CTR	Y	ELQ	EMG	23-27 13 00			M
03	Emergency Generator (EMG)	Diesel Engine	DIE	DIE	Y	ELQ	EMG	23-35 11 12 11			M
03	Emergency Generator (EMG)	Fuel Tank	FUT	FUT	Y	ELQ	EMG	23-27 29 19	M		M
03	Emergency Generator (EMG)	Fuel Pump	FPMP	FPMP	Y	ELQ	EMG	23-27 17 00	M		M
03	Emergency Generator (EMG)	Undervolt Relay	URE	URE	Y	ELQ	EMG	23-35 43 37 11			M
04	HVAC-Air Side (HVAC)	Air Side ([^])	AS	AS	Y	N/A		23-33 00 00	N/A		
04	HVAC-Air Side (HVAC)	Air Handling Unit	AHU	AHU	Y	MCQ	AHU	23-33 25 00	M		M
04	HVAC-Air Side (HVAC)	Air Treatment System (including air purifier)	N/A	AP	G	MCQ	OTR	23-27 57 35			M
04	HVAC-Air Side (HVAC)	Computer Room Air Conditioner and Handler (CRAC)	DXU	CRAC	Y	MCQ	AHU	23-33 25 00	M		M
04	HVAC-Air Side (HVAC)	Constant Air Volume Box	N/A	CAV	Y	MCQ	FAN	23-33 41 17 11	M		M
04	HVAC-Air Side (HVAC)	DX Unit (including split-type DX units, VRV outdoor units, single packaged units)	DXU	DXU	Y	MCQ	DXU	23-33 39 00	M		M
04	HVAC-Air Side (HVAC)	Dehumidifier	N/A	DHUM	G	MCQ	DHM	23-33 27 13			M
04	HVAC-Air Side (HVAC)	Exhaust Air Fan	EAF	EAF	Y	MCQ	FAN	23-33 31 19	M		M
04	HVAC-Air Side (HVAC)	Energy Recovery Unit (e.g. Heat Wheel)	HW	HW	Y	MCQ	HWL	23-33 55 13			M
04	HVAC-Air Side (HVAC)	Fan Coil Unit	FCU	FCU	Y	MCQ	FCU	23-33 33 11	M		M
04	HVAC-Air Side (HVAC)	Fire Damper	FD	FD	Y	DUA	DAM	23-33 29 23	M		M
04	HVAC-Air Side (HVAC)	Fresh Air Fan	FAF	FAF	Y	MCQ	FAN	23-33 31 19	M		M
04	HVAC-Air Side (HVAC)	Humidifier	N/A	HUM	G	MCQ	HMF	23-33 27 15			M
04	HVAC-Air Side (HVAC)	Jet Fan	N/A	JETF	Y	MCQ	FAN	23-33 31 19	M		M
04	HVAC-Air Side (HVAC)	Kitchen Mortuary Fan	N/A	KMF	G	MCQ	FAN	23-33 31 19	M		M
04	HVAC-Air Side (HVAC)	Local Motor Control Panel ([*])	LMCP	LMCP	N	ELQ	PAN	23-27 15 25			M
04	HVAC-Air Side (HVAC)	Primary Air Handling Unit	PAU	PAU	Y	MCQ	PAU	23-33 25 00	M		M
04	HVAC-Air Side (HVAC)	Transfer Air Fan	N/A	TAF	Y	MCQ	FAN	23-33 31 19	M		M
04	HVAC-Air Side (HVAC)	VRV-IDU	IDU	IDU	Y	MCQ	IDU	23-33 39 11	M		M
04	HVAC-Air Side (HVAC)	Variable Speed Drives	VSD	VSD	G	ELQ	VFD	23-35 17 00			M
04	HVAC-Air Side (HVAC)	Variable Air Volume Box	VAV	VAV	Y	MCQ	VAV	23-33 41 17 13	M		M
04	HVAC-Air Side (HVAC)	Venturi Valve	N/A	VTV	G	MCQ	VCS	23-27 31 13	M		M
04	HVAC-Air Side (HVAC)	Water Scrubber	N/A	WSCR	G	MCQ	WTS	23-27 57 35	M		M
04	HVAC - Water Side (HVAC)	Water Side ([^])	WS	WS	Y	N/A		23-33 00 00	N/A		
04	HVAC - Water Side (HVAC)	Air Cooled Chiller	CHR	ACC	Y	MCQ	ACC	23-33 21 00	M		M
04	HVAC - Water Side (HVAC)	Auto-strainer	ASR	ASR	Y	PPA	ASR	23-39 41 11 33	M		M
04	HVAC - Water Side (HVAC)	Chilled Water Pump	PMP	CHWP	Y	MCQ	PMP	23-27 17 00	M		M
04	HVAC - Water Side (HVAC)	Circulation Pump	PMP	CP	Y	MCQ	PMP	23-27 17 00	M		M
04	HVAC - Water Side (HVAC)	Condensing Water Pump	PMP	CWP	Y	MCQ	PMP	23-27 17 00	M		M
04	HVAC - Water Side (HVAC)	Cooling Tower	COT	COT	Y	MCQ	COT	23-33 23 00	M		M
04	HVAC - Water Side (HVAC)	Cooling Tower Bleed Off Pump	PMP	CTP	Y	MCQ	PMP	23-27 17 00	M		M
04	HVAC - Water Side (HVAC)	Heat Pump Type Chiller	HPC	HPC	Y	MCQ	HPC	23-33 21 13	M		M
04	HVAC - Water Side (HVAC)	Heat Exchanger	HEX	HEX	Y	MCQ	HEX	23-27 23 00	M		M
04	HVAC - Water Side (HVAC)	Heating Water Pump	PMP	HWP	Y	MCQ	PMP	23-27 17 00	M		M
04	HVAC - Water Side (HVAC)	Main motorized/ modulating control valve	N/A	MCV	G	PPA	VLV	23-27 31 00			M
04	HVAC - Water Side (HVAC)	Pressurized Water System	PWS	PWS	Y	MCQ	PWS	23-33 00 00	M		M
04	HVAC - Water Side (HVAC)	Sea Water Pump	PMP	SWP	Y	MCQ	PMP	23-27 17 00	M		M
04	HVAC - Water Side (HVAC)	Tube Cleaning System	N/A	TCS	G	MCQ	WTS	23-27 55 00	M		M
04	HVAC - Water Side (HVAC)	Travelling Band Screen	TBS	TBS	Y	MCQ	TBS	23-39 33 11 33	M		M
04	HVAC - Water Side (HVAC)	Water Cooled Chiller	CHR	WCC	Y	MCQ	WCC	23-33 21 00	M		M
04	HVAC - Water Side (HVAC)	Water Treatment System (including those serving chiller water, condenser water (fresh water) and condenser water (sea water))	WTS	WTS	Y	MCQ	WTS	23-27 55 00	M		M
04	HVAC - Cold Room / Store (HVAC)	Cold Room/Store ([^]) (Note 9)	CRM	CRM	Y	N/A		23-19 31 19 13 11	M		M
04	HVAC- Miscellaneous (HVAC)	Miscellaneous ([^])	MIS	MIS	G	N/A		23-33 00 00	N/A		
04	HVAC- Miscellaneous (HVAC)	Central Control and Monitoring System (CCMS) (e.g. DDC)	CCMS	CCMS	Y	MCQ	CCM	23-27 15 00			M
04	HVAC- Miscellaneous (HVAC)	Energy Meter	N/A	EM	G	PPA	OTR	23-27 15 17			M
04	HVAC- Miscellaneous (HVAC)	Motor Control Center (MCC)	MCC	MCC	G	MCQ	MCC	23-35 31 23	M		M
04	HVAC- Miscellaneous (HVAC)	Room Cooler	RCR	RCR	Y	MCQ	ACD	23-33 45 00	M		M
04	HVAC- Miscellaneous (HVAC)	Refrigerator (including those for blood, food, medicine, vaccine, specimen etc.)	RFR	RFR	Y	SPQ	DMT	23-25 00 00	M		M
05	Boiler System (BLR)	Boiler System ([^])	BLR	BLR	Y	N/A		23-33 11 00	N/A		
05	Boiler System (BLR)	Boiler Feed Pump	PMP	BFP	Y	MCQ	PMP	23-27 17 00	M		M
05	Boiler System (BLR)	Booster Pump	PMP	BP	Y	MCQ	PMP	23-27 17 00	M		M
05	Boiler System (BLR)	Calorifier	CAL	CAL	Y	MCQ	CAL	23-33 11 00	M		M
05	Boiler System (BLR)	Circulation Pump	PMP	CP	Y	MCQ	PMP	23-27 17 00	M		M
05	Boiler System (BLR)	Gas boiler	GAB	GAB	Y	MCQ	BLR	23-33 11 00	M		M
05	Boiler System (BLR)	Heat Exchanger	HEX	HEX	Y	MCQ	HEX	23-27 23 00	M		M
05	Boiler System (BLR)	Hot water boiler	HWB	HWB	Y	MCQ	BLR	23-33 11 00	M		M
05	Boiler System (BLR)	Local Motor Control Panel ([*])	LMCP	LMCP	N	ELQ	PAN	23-27 15 23 13			M
05	Boiler System (BLR)	Steam boiler	STO	STO	Y	MCQ	BLR	23-33 11 00	M		M
06	Filtration Plant (FP)	Filtration Plant ([^])	FP	FP	Y	N/A		23-39 41 11	N/A		
06	Filtration Plant (FP)	Air Blower or Air Compressor (including the application for sand tank and NaoCl tank)	AB	AB	Y	MCQ	OTR	23-33 31 13	M		M
06	Filtration Plant (FP)	Air Release Valve (for filtration tanks)	ARV	ARV	Y	PPA	VLV	23-27 31 49			M
06	Filtration Plant (FP)	Booster pump	PMP	BP	Y	MCQ	PMP	23-27 17 00	M		M
06	Filtration Plant (FP)	Building Management System	BMS	BMS	Y	N/A		23-27 15 00			M
06	Filtration Plant (FP)	Chemical Dosing Pump (including the application for NaOCl, Soda, ALUM, Acid and Brine)	CHP	CHP	Y	MCQ	PMP	23-27 17 00	M		M
06	Filtration Plant (FP)	Circulation Pump	PMP	CP	Y	MCQ	PMP	23-27 17 00	M		M

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06	Filtration Plant (FP)	Controller Analyser and Sensor (including those sensors for measuring ppm, mV, PH, °C and ORP)	CAS	CTRS	Y	ELF	SNR	23-27 11 00			M
06	Filtration Plant (FP)	Diesel Boiler	DIB	DIB	Y	MCQ	BLR	23-33 11 00	M		M
06	Filtration Plant (FP)	Electric Boiler	ELB	ELB	Y	MCQ	BLR	23-33 11 22	M		M
06	Filtration Plant (FP)	Electro-Chlorinator System	ECS	ELCS	Y		N/A	23-27 55 00	M		M
06	Filtration Plant (FP)	Filtration Tank (including those sand tanks, carbon tanks and reaction tanks.)	FIT	FIT	Y	MCQ	WAT	23-27 29 19	M		M
06	Filtration Plant (FP)	Heat Exchanger	HEX	HEX	Y	MCQ	HEX	23-27 23 00	M		M
06	Filtration Plant (FP)	Motor	MOT	MOT	Y	ELQ	MOT	23-35 15 00			M
06	Filtration Plant (FP)	Misc. Swimming Pool Equipment (e.g. electric valve)	MSP	MSP	Y	MCQ	OTR	23-21 29 19 23			M
06	Filtration Plant (FP)	Motor Control Center (MCC)	MCCP	MCC	Y	MCQ	MCC	23-35 25 23	M		M
06	Filtration Plant (FP)	Ozone Generator System	OGS	OGS	Y		N/A	23-39 35 11 23	M		M
06	Filtration Plant (FP)	Ultraviolet Sterilizer	ULS	ULS	Y	MCQ	OTR	23-39 41 15	M		M
06	Filtration Plant (FP)	Variable Speed Drives / Soft Starter	VSD / SS	VSD / SS	Y	ELQ	VFD	23-35 17 00			M
06	Filtration Plant (FP)	Local Motor Control Panel (*)	LMCP	LMCP	N	ELQ	PAN	23-27 15 25			M
07	Fire Services Installation (FS)	Wet System (^)	WTS	WES	Y		N/A	23-29 33 11		N/A	
07	Fire Services Installation (FS)	Drencher Pump	PMP	DWP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Fire Service Jockey Pump	PMP	FJP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Fire Service Intermediate Booster Pump	PMP	FIP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Fire Service Pump (e.g. FH/HR pump)	PMP	FSP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Sprinkler Pump	PMP	SPRP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Sprinkler Jockey pump	PMP	SJP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Sprinkler Booster Pump	PMP	SIP	Y	MCQ	PMP	23-27 17 00	M		M
07	Fire Services Installation (FS)	Sprinkler control valve set & accessories (including sprinkler control valve set, sprinkler subsidiary valve, pre-action recycling sprinkler control valve set, air compressor, dry alarm sprinkler control valve, foam-water sprinkler control valve set)	SCV	SPKCV	Y	PPA	VLV	23-29 33 11	M		M
07	Fire Services Installation (FS)	Local Control Panel (*)	LMCP	LMCP	N	ELQ	PAN	23-35 25 23			M
07	Fire Services Installation (FS)	Automatic Fire Detection and Alarm System (^)	AFA	AFA	Y		N/A	23-29 31 00		N/A	
07	Fire Services Installation (FS)	Audio/ Visual Advisory System	AVA	AVA	Y		N/A	23-29 31 19			M
07	Fire Services Installation (FS)	Fire Alarm equipment (including manual call point, smoke detector, flashing lighting, alarm siren, alarm bell, heat detector, optical beam smoke detector, multi-sensor detector, fire alarm panel and aspirating smoke detection equipment)	FAE	FAE	Y	ALM	OTR	23-29 31 00	M (Note 4) (For main automatic fire detection and alarm (AFA) panel)		M
07	Fire Services Installation (FS)	Gas Suppression System (^)	GSS	GSS	Y		N/A	23-29 33 13		N/A	
07	Fire Services Installation (FS)	Gas cylinder and equipment (including gas cylinders, control panels and discharge nozzles for CO ₂ , FM200, NAFS III and Novec 1230 system)	GCE	GCE	Y	ALM	OTR	23-29 33 13	M (Note 3)		M
07	Fire Services Installation (FS)	Portable Equipment (^)	PE	PE	Y	ALM	OTR	23-29 25 00		N/A	
07	Fire Services Installation (FS)	Portable fire extinguisher (including all type of fire extinguishers, fire blanket and sand bucket)	PFE	PFE	Y	SPQ	FSI	23-29 25 19	M		M
07	Fire Services Installation (FS)	Gas Detection System (^)	GDS	GDS	Y		N/A	23-27 11 27		N/A	
07	Fire Services Installation (FS)	Gas detector and equipment (including CO2 gas detector, hydrogen gas detector, ammonia gas detector, ozone gas detector and gas detection control panel)	GDE	GDE	Y	ALM	OTR	23-27 11 27 17	M (Note 4) (For control panel)		M
07	Fire Services Installation (FS)	Exit sign & Directional sign	EXS	EXS	Y	SPQ	FSI	23-35 47 15			M
08	Uninterrupted Power Supply (UPS)	Uninterrupted Power Supply (UPS)	UPD	UPS	Y		N/A	23-35 23 21		N/A	
08	Uninterrupted Power Supply (UPS)	Battery System	BATS	BATS	Y		N/A	23-35 19 00	M		M
08	Uninterrupted Power Supply (UPS)	Static Transfer Switch	STS	STS	Y	ELQ	LAS	23-35 37 00			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Access Control System (^)	ACS	ACS	Y		N/A	23-29 13 00		N/A	
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Accessories (including keypad, UPS/battery, electro-magnetic contact, electric strike, access control converter, interface board etc.)	ACC	AES	Y	COM	OTR	23-29 00 00			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Card Reader	SMR	CAR	Y	SCD	CRD	23-29 13 13 11 13			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Card Reader Control	CRC	CRC	Y	SCD	CRD	23-29 13 13			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Computer	COM	COM	Y	FNy	PRT	23-37 13 11		M	M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Emergency Breakglass	EMB	EMB	Y	SPQ	FSI	23-37 27 13 11			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Intercom (including door phone system, intercom door station and intercom master station etc.)	INM	INM	Y	COM	ICM	23-37 23 17 11		M	M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Lock/Button/Switch (including electro-magnetic lock, door release button, bypass key switch etc.)	LBS	LBS	Y	ELF	SWC	23-17 19 11			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Lock Control Unit	LCU	LCU	Y	SCD	ELK	23-17 19 11 31 13			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Panel (including control panel, telephone door phone panel, buzzer & lighting indicator panel etc.)	PAN	PAN	Y	ELQ	PAN	23-27 15 25	M		M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Remote Release Button Receiver	RER	RER	Y	SCD	OTR	23-17 19 11 29 17			M
09	Burglar Alarm and Security Installation - Access Control system (ACS)	Turnstiles	TUR	TUR	Y	SCD	OTR	23-29 13 23			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Burglar Alarm System (^)	BAS	BAS	Y		N/A	23-29 11 00		N/A	
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Accessories (including Security alarm bell, video control unit, video door-phone set, wireless microphone, volume speaker, siren, transformer, buzzer light etc.)	ACC	AES	Y	SPQ	OTR	23-29 00 00			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Amplifier	AMP	AMP	Y	COM	AMP	23-37 15 29 11 15		M	M

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09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Audio / Video Product	AVP	AVP	Y	SPQ	OTR	23-37 15 00		M	M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Camera	CAM	CAM	Y	SPQ	OTR	23-37 15 11			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Controller (including volume controller, lighting controller etc.)	CTR	CTR	Y	SCD	OTR	23-37 15 00			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Intrusion Detector (including electro-magnetic contact, wide angle duet tech detector, dual tech motion detector etc.)	IND	IND	Y	SCD	OTR	23-29 11 23			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Lock/Button/Switch (including call bell button, bypass key switch, emergency lock, push alarm E-lock etc.)	LBS	LBS	Y	SCD	OTR	23-29 00 00			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Panel (including zones alarm panel, alarm repeater, outdoor S.S. panel, push button wall etc.)	PAN	PAN	Y	ELQ	PAN	23-29 00 00	M		M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Power Management Unit (including control room charge, telephone link charge, power supply unit & battery and UPS for DVR etc.)	PMU	PMU	Y	SCD	OTR	23-35 31 00			M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Projectoring Product (including LCD projector, visualizer etc.)	PRP	PRP	Y	SPQ	OFQ	23-37 15 00		M	M
09	Burglar Alarm and Security Installation - Burglar Alarm System (BAS)	Screen/Monitor	SCM	SCM	Y	SPQ	OFQ	23-19 11 25			M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	CCTV and Intercom System (^)	CCTVI	CCTVI	Y	N/A		23-29 11 00	N/A		
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Accessories (including backward direction control, UPS, video distribution amplifier, control keyboard, media converter, fibre transmitter/ receiver, LCD KVM switch, HDMI extender etc.)	ACC	AES	Y	SCD	OTR	23-37 13 00			M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Camera	CAM	CAM	Y	SCD	CTV	23-37 15 11			M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Computer	COM	COM	Y	FNY	PRT	23-37 13 11		M	M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Duplex Multiplexer	DUM	DUM	Y	SCD	OTR	23-37 15 00		M	M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Intercom (including handset with release button)	INM	INM	Y	COM	ICM	23-37 23 17 11		M	M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Multi Channel DVR / NVR	DVR/NVR	DVR/NVR	Y	SCD	OTR	23-37 15 00		M	M
09	Burglar Alarm and Security Installation - CCTV & Intercom System (CCTVI)	Video Switcher	VIS	VIS	Y	SCD	OTR	23-37 15 00		M	M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Smart Card System (^)	SCS	SCS	Y	N/A		23-37 13 00	N/A		
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Access Controller	ACR	ACR	Y	SCD	OTR	23-29 00 00			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Accessories (including interfacing module, interconnection point with FS panel, alarm siren etc.)	ACC	AES	Y	SCD	OTR	23-29 13 00			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Card Reader	CAR	CAR	Y	SCD	CRD	23-29 13 13			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Computer	COM	COM	Y	FNY	PRT	23-37 13 11		M	M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Control Unit	COU	COU	Y	SCD	OTR	23-29 00 00			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Keypad	KEP	KEP	Y	SCD	OTR	23-29 11 27			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Lock/Button/Switch (including door release button, electro-magnetic lock, alarm shunt key switch etc.)	LBS	LBS	Y	SCD	OTR	23-17 19 11			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Printer	PRI	PRI	Y	SCD	OTR	23-37 13 23			M
09	Burglar Alarm and Security Installation - Smart Card System (SCS)	Power Management Unit	PMU	PMU	Y	SCD	OTR	23-29 00 00			M
09	Burglar Alarm and Security Installation - Call Alarm System (CAS)	Call Alarm System (^)	CAS	CAS	Y	N/A		23-29 11 00	N/A		
09	Burglar Alarm and Security Installation - Call Alarm System (CAS)	Alarm Siren/Bell	ASB	ASB	Y	COM	BLL	23-37 17 13			M
09	Burglar Alarm and Security Installation - Call Alarm System (CAS)	Button (including push button, emergency call button etc.)	BUT	BUT	Y	SCD	OTR	23-37 27 13 11			M
09	Burglar Alarm and Security Installation - Call Alarm System (CAS)	Control Panel	COP	COP	Y	ELQ	PAN	23-27 15 25	M		M

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09	Burglar Alarm and Security Installation - Videophone System (VPS)	Videophone System (^)	VPS	VPS	Y	N/A		23-37 23 00	N/A		
09	Burglar Alarm and Security Installation - Videophone System (VPS)	Extension Speaker	EXS	EXTS	Y	COM	SPK	23-37 17 13 19			M
09	Burglar Alarm and Security Installation - Videophone System (VPS)	Handset	HAN	HAN	Y	COM	OTR	23-37 15 29			M
09	Burglar Alarm and Security Installation - Videophone System (VPS)	Station (including master station and door station etc.)	STA	STA	Y	COM	OTR	23-37 00 00			M
09	Burglar Alarm and Security Installation - Videophone System (VPS)	Videophone Control	VPC	VPC	Y	COM	OTR	23-37 13 00			M
09	Burglar Alarm and Security Installation - Keypad Lock System (KLS)	Keypad Lock System (^)	KLS	KLS	Y	N/A		23-29 13 00	N/A		
09	Burglar Alarm and Security Installation - Keypad Lock System (KLS)	Backup Battery	BAB	BAB	Y	COM	OTR	23-35 23 00			M
09	Burglar Alarm and Security Installation - Keypad Lock System (KLS)	Door Release Button	DRB	DRB	Y	COM	OTR	23-17 19 11			M
09	Burglar Alarm and Security Installation - Keypad Lock System (KLS)	Keypad	KEP	KEP	Y	COM	OTR	23-29 11 27			M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Drop-arm Barrier(^)	DAB	DAB	Y	COM	OTR	23-39 11 11	N/A		
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Accessories (including push button, LCD monitor, UPS supply etc.)	ACC	AES	Y	SCD	OTR	23-29 13 00			M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Barrier Gate (e.g. Vehicle Road Blocker)	BAG	BAG	Y	SCD	OTR	23-39 11 11			M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Card Accessories Controller	CAC	CAC	Y	SCD	OTR	23-29 13 00			M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Control Panel	COP	COP	Y	ELQ	PAN	23-27 15 25	M		M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Detector (including infrared magnetic loop etc.)	DER	DER	Y	SCD	OTR	23-29 11 23			M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Intercom (including intercom door station, intercom master station etc.)	INM	INM	Y	COM	ICM	23-37 23 17 11		M	M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Proximity Card	PRC	PRC	Y	SCD	OTR	23-29 13 00			M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Recorder	REC	REC	Y	SCD	OTR	23-37 15 21 15		M	M
09	Burglar Alarm and Security Installation - Drop-arm Barrier (DAB)	Workstation Unit	WOU	WOU	Y	COM	OTR	23-29 13 00		M	M
09	Burglar Alarm and Security Installation - Electric Lock System (ELS)	Electric Lock System (^)	ELS	ELS	Y	N/A		23-17 19 11 31 13	N/A		
10	Radar and Navigation System (RNS)	Radar and Navigation System (^)	RNS	RNS	Y	N/A		23-39 21 17 15	N/A		
10	Radar and Navigation System (RNS)	Accessories (including AIS receiver, AIS transceiver, GPS receiver, fluxgate, gyrocompass, satellite compass, electronic sea chart, echo sounder, wind sensor, speed log, speed indicator, monitor, instrument display unit, control panel, digital video recorder, pan tilt head etc.)	ACC	AES	Y	COM	OTR	23-39 21 11			M
10	Radar and Navigation System (RNS)	Antenna	BRR	ANT	Y	COM	OTR	23-39 21 11			M
10	Radar and Navigation System (RNS)	Display and processing unit	DPU	DPU	Y	COM	DPL	23-37 25 15		M	M
10	Radar and Navigation System (RNS)	Network Equipment (including switch, hub, router etc.)	NEE	NEE	Y	COM	OTR	23-37 13 17			M
10	Radar and Navigation System (RNS)	Turning unit	TUU	TUU	Y	COM	OTR	23-39 21 11		M	M
10	Radar and Navigation System (RNS)	Video camera	VIC	VIC	Y	SPQ	OTR	23-37 15 11			M
11	Microwave Link System (MLS)	Microwave Link System (^)	MLS	MLS	Y	N/A		23-37 23 19	N/A		
11	Microwave Link System (MLS)	Accessories	ACC	AES	Y	COM	OTR	23-37 13 00			M
11	Microwave Link System (MLS)	Antenna	ANT	ANT	Y	COM	OTR	23-37 23 19			M
11	Microwave Link System (MLS)	Network Equipment (including switch, hub, router etc.)	NEE	NEE	Y	COM	OTR	23-37 13 17		M	M
11	Microwave Link System (MLS)	Processing unit (including multiplexer, modulator etc.)	PRU	PRU	Y	COM	OTR	23-37 25 15		M	M
11	Microwave Link System (MLS)	RF Interface Unit (including duplexer, coupler combiner, exciter, filter, splitter, waveguide etc.)	RIU	RIU	Y	COM	OTR	23-37 23 19		M	M
11	Microwave Link System (MLS)	Transceiver	TRAN	TRAN	Y	COM	OTR	23-37 23 19			M
12	Timing & Display System (TDS)	Timing & Display System (^)	TDS	TDS	Y	N/A		23-37 13 00	N/A		
12	Timing & Display System (TDS)	Control Unit / Server	CUS	CUS	Y	COM	SER	23-29 13 00		M	M
12	Timing & Display System (TDS)	Master Clock Unit	MCU	MCU	Y	COM	CLK	23-29 13 00			M
12	Timing & Display System (TDS)	Network Equipment (including router/ switch, firewalls/ security appliances, fiber equipment, cables/ connectors, printer, dispenser etc.)	NEE	NEE	Y	COM	OTR	23-37 13 17			M
12	Timing & Display System (TDS)	Operator Control Console / Workstation, PC	OCC	OCC	Y	FNY	PRT	23-37 13 00		M	M
12	Timing & Display System (TDS)	Queue Management Unit (including public kiosk, counter keypad etc.)	QMU	QMU	Y	SPQ	OTR	23-19 29 15 19			M
12	Timing & Display System (TDS)	Sensing Unit	SEU	SEU	Y	COM	OTR	23-37 13 00			M
12	Timing & Display System (TDS)	Uninterruptible Power Supply (UPS)	UPS	UPS	Y	N/A		23-35 23 21	M		M
12	Timing & Display System (TDS)	Video Display Unit	VDU	VDU	Y	COM	DPL	23-29 13 00			M
12	Timing & Display System (TDS)	Video & Audio Equipment (including monitor, camera, extender, switch/ splitter/ matrix, video player etc.)	VAE	VAE	Y	SPQ	OFQ	23-37 15 00			M
13	Audio Video System (AV)	Audio Video System (^)	AV	AV	Y	N/A		23-37 15 00	N/A		
13	Audio Video System (AV)	Audio Amplifier	AAM	AAM	Y	COM	AMP	23-37 15 29 11 15			M
13	Audio Video System (AV)	Audio Mixer	AMI	AMI	Y	COM	OTR	23-37 15 00			M
13	Audio Video System (AV)	Audio Equalizer	AEQ	AEQ	Y	COM	OTR	23-37 15 29 11 17			M
13	Audio Video System (AV)	Audio Loudspeaker	ALO	ALO	Y	COM	SPK	23-37 15 29 11 13			M
13	Audio Video System (AV)	Audio Microphone	AMC	AMC	Y	COM	MIC	23-37 15 29 11 11			M
13	Audio Video System (AV)	Audio Miscellaneous (including antenna, combiner, converter, IR emitter, IR receiver, processor, simultaneous interpretation system, sound box, UPS, transcriber etc.)	AMS	AMS	Y	COM	OTR	23-37 15 00			M
13	Audio Video System (AV)	Console (e.g. computer)	CONS	CONS	Y	FNY	PRT	23-37 13 00			M
13	Audio Video System (AV)	Distribution Amplifier	DIS	DISA	Y	COM	OTR	23-37 15 00		M	M
13	Audio Video System (AV)	Display Unit (including digital whiteboard, TV monitor, projector, screen, video wall, visualizer etc.)	DIU	DIU	Y	COM	DPL	23-29 13 00		M	M
13	Audio Video System (AV)	Extender	EXT	EXT	Y	COM	OTR	23-37 15 00			M
13	Audio Video System (AV)	Matrix Switcher	MAT	MAT	Y	COM	OTR	23-37 15 00			M

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13	Audio Video System (AV)	Miscellaneous (including analyzer, control panel, generator, limiter, matrix, patch panel, selector/ switcher, time synchronizer etc.)	MIS	MIS	Y	SPQ	OFQ	23-37 13 00			M
13	Audio Video System (AV)	Player	PLA	PLA	Y	SPQ	OFQ	23-37 15 00		M	M
13	Audio Video System (AV)	Recorder	REC	REC	Y	SPQ	OFQ	23-37 15 21		M	M
13	Audio Video System (AV)	Splitter	SPL	SPL	Y	COM	OTR	23-37 15 00			M
13	Audio Video System (AV)	Switch (including the switches for HDMI, VGA, DVI, multimedia etc.)	SW	SW	Y	ELF	SWC	23-29 13 00			M
14	Audio System (AUS)	Audio System (^)	AUS	AUS	Y	N/A		23-37 15 00	N/A		
14	Audio System (AUS)	Amplifier	AMP	AMP	Y	COM	AMP	23-37 15 29 11 15		M	M
14	Audio System (AUS)	Annunciator	ANN	ANN	Y	COM	OTR	23-37 15 00			M
14	Audio System (AUS)	Chairman Unit	CHU	CHU	Y	COM	MIC	23-37 00 00			M
14	Audio System (AUS)	Controller	CTR	CTR	Y	COM	OTR	23-37 15 29			M
14	Audio System (AUS)	Delegate Unit	DEU	DEU	Y	COM	OTR	23-37 15 00			M
14	Audio System (AUS)	Equalizer	EQU	EQU	Y	COM	OTR	23-37 15 29 11 17		M	M
14	Audio System (AUS)	Intercom Master Station	IMS	IMS	Y	COM	ICM	23-37 27 15		M	M
14	Audio System (AUS)	Intercom Slave Station	ISS	ISS	Y	COM	ICS	23-37 27 15		M	M
14	Audio System (AUS)	Interpreter Unit	INT	INT	Y	COM	OTR	23-37 15 00		M	M
14	Audio System (AUS)	Loudspeaker	LOU	LOU	Y	COM	OTR	23-37 15 29 11 13			M
14	Audio System (AUS)	Loop Amplifier	LAM	LAM	Y	COM	AMP	23-37 15 29		M	M
14	Audio System (AUS)	Matrix	MAT	MAT	Y	COM	OTR	23-37 15 00			M
14	Audio System (AUS)	Microphone	MIC	MIC	Y	COM	OTR	23-37 15 29 11 11			M
14	Audio System (AUS)	Mixer	MIX	MIX	Y	COM	OTR	23-37 15 00		M	M
14	Audio System (AUS)	Miscellaneous (including analyser, antenna, audio tape, players, combiner, converter, extender, IR emitter, IR receiver, monitor, processor, simulator interpretation system, sound box, splitter, switcher, tape, transcribers, UPS, zone selector etc.)	MIS	MIS	Y	COM	OTR	23-37 15 00			M
14	Audio System (AUS)	Network Switch	NES	NES	Y	COM	OTR	23-37 13 17 25			M
14	Audio System (AUS)	PC Workstation	PCW	PCW	Y	FN Y	PRT	23-37 13 00		M	M
14	Audio System (AUS)	Recorder	REC	REC	Y	COM	OTR	23-37 15 21 11		M	M
14	Audio System (AUS)	T-coil (Hearing Aid)	TCO	TCO	Y	COM	OTR	23-37 15 00			M
15	Radio System (RS)	Radio System (^)	RS	RS	Y	N/A		23-37 23 00	N/A		
15	Radio System (RS)	Accessories (including battery charger, speaker, carpiece, microphone, multiplexer, PTT switch etc.)	ACC	AES	Y	COM	OTR	23-37 13 00			M
15	Radio System (RS)	Antenna	ANT	ANT	Y	COM	OTR	23-37 23 19			M
15	Radio System (RS)	Base Radio/Repeater (including transmitter, receiver, transceiver bi-directional amplifier etc.)	BRR	BRR	Y	COM	OTR	23-37 23 21		M	M
15	Radio System (RS)	Console (e.g. workstation)	CONS	CONS	Y	FN Y	PRT	23-37 13 00			M
15	Radio System (RS)	Network Equipment (including switch, router, firewall, encryptor, server, modem etc.)	NEE	NEE	Y	COM	OTR	23-37 13 17			M
15	Radio System (RS)	Power Supply (e.g. UPS, DC power supply)	POS	POS	Y	COM	OTR	23-35 31 11			M
15	Radio System (RS)	Radio Terminals	RAT	RAT	Y	COM	OTR	23-37 23 19			M
15	Radio System (RS)	RF Interface Unit (including duplexer, coupler combiner, exciter, filter, splitter etc.)	RIU	RIU	Y	COM	OTR	23-37 23 19		M	M
15	Radio System (RS)	Voice logger	VLO	VLO	Y	COM	OTR	23-37 13 00		M	M
16	Closed Circuit TV System (CCTV) (Non-burglar-alarm purpose)	CCTV System (^) (Note 8)	CCTV	CCTV	Y	N/A		23-29 11 00	N/A		
16	Closed Circuit TV System (CCTV)	Camera	CAM	CAM	Y	SCD	OTR	23-37 15 11			M
16	Closed Circuit TV System (CCTV)	Console/ Server (e.g. workstation)	CONS	CONS	Y	FN Y	PRT	23-37 13 00			M
16	Closed Circuit TV System (CCTV)	Display Unit (including video wall, projector, monitor, LCD panel etc.)	DIU	DIU	Y	COM	DPL	23-29 13 00		M	M
16	Closed Circuit TV System (CCTV)	Miscellaneous (including O/E converter, E/O converter, video encoder, video decoder, VDA, HDMI extender, PoE injector, PoE splitter, selector/ switcher etc.)	MIS	MIS	Y	SCD	OTR	23-37 15 00			M
16	Closed Circuit TV System (CCTV)	Network Switch	NES	NES	Y	COM	OTR	23-37 13 17 25			M
16	Closed Circuit TV System (CCTV)	Video Recorder	VIR	VIR	Y	COM	OTR	23-37 15 21 13		M	M
16	Closed Circuit TV System (CCTV)	Video Matrix	VIM	VIM	Y	SCD	CTV	23-37 15 00		M	M
17	Broadcast Reception Installation - UHF TV System (UTV)	UHF TV System (^)	UTV	UTV	Y	N/A		23-37 25 00	N/A		
17	Broadcast Reception Installation - UHF TV System (UTV)	Accessories (including attenuator, rejection filter, CCTV modulator, RF modulator, equalizer, power supply unit, splitter, tee unit, channel optic coupler, combiner, filter optics receiver etc.)	ACC	AES	Y	SCD	OTR	23-37 25 00			M
17	Broadcast Reception Installation - UHF TV System (UTV)	Antenna/Preamplifier (including bandpass filter)	ANT/PAM	ANT/PAM	Y	SCD	OTR	23-37 25 00		M	M
17	Broadcast Reception Installation - UHF TV System (UTV)	Channel Amplifier/Amplifier	AMP	AMP	Y	COM	AMP	23-37 25 19 15		M	M
17	Broadcast Reception Installation - Satellite TV System (STV)	Satellite TV System (^)	STV	STV	Y	N/A		23-37 23 23	N/A		
17	Broadcast Reception Installation - Satellite TV System (STV)	Accessories (including satellite IF outlet, wide-band splitter, wide-band T-unit, motor control kit, sat. multi-switch, steel frame cleaning, optical transmitter, fiber cable etc.)	ACC	AES	Y	COM	OTR	23-37 23 23			M
17	Broadcast Reception Installation - Satellite TV System (STV)	Antenna / Amplifier (including satellite dish, antenna, IF insertion amplifier, feedhorn, LNB etc.)	ANT/AMP	ANT/AMP	Y	COM	AMP	23-37 25 19 15			M
17	Broadcast Reception Installation - Satellite TV System (STV)	Converter (including programmable controller)	CON	CON	Y	COM	OTR	23-37 23 23		M	M
17	Broadcast Reception Installation - Satellite TV System (STV)	Receiver (including satellite receiver, RF modulator, amplifier etc.)	REC	RECV	Y	COM	OTR	23-37 23 23		M	M
18	Lighting System (LTG)	Lighting System (^)	LTG	LTG	Y	N/A		23-35 47 00	N/A		
18	Lighting System (LTG)	Light / Photo Sensor	N/A	LS	N	LTD	OPS	23-27 11 00		M	M
18	Lighting System (LTG)	Lighting Control System (including Control panel, room controller, partition controller, Digital Addressable Lighting Interface (DALI) Workstation, lighting controller, relay controller)	LCS	LCS	Y	N/A		23-27 15 21	M (Note 4) (For control panel only)		M
18	Lighting System (LTG)	Luminaire (including external and exterior lighting and signs)	LUM	LUM	Y	LTG	OTR	23-35 47 11			M
18	Lighting System (LTG)	Motion and Occupancy Sensor	N/A	MSEN	N	LTD	OPS	23-27 11 00		M	M
19	Electrical Distribution System (EL)	Electrical Distribution System (^)	EL	EL	N	N/A		23-35 31 00	N/A		
19	Electrical Distribution System (EL)	Distribution Board	DTB	DTB	N	ELQ	PAN	23-35 31 13	M		M
19	Electrical Distribution System (EL)	Fuse switch & Switch fuse	FSW	FSW	N	ELF	OTR	23-35 29 29			M
19	Electrical Distribution System (EL)	Isolating switch	ISW	ISW	N	ELF	SWC	23-35 37 00			M
19	Electrical Distribution System (EL)	Power Distribution Unit (PDU)	N/A	PDU	N	ELF	OTR	23-35 31 27			M
19	Electrical Distribution System (EL)	Solar Photovoltaic (PV) System (including PV panels, control panel, inverter, battery and isolation transformer)	PV	PV	G	SPQ	SUD	23-35 11 17			M
20	Medical Gas System (MG)	Medical Gas System (^)	MG	MG	G	N/A		23-25 33 00	N/A		
20	Medical Gas System (MG)	Blower (for Anaesthetic Gas Scavenging System)	AGP	AGP	G	MCQ	AIC	23-25 00 00	M		M
20	Medical Gas System (MG)	Compressor (including those for medical air and surgical air)	COM	COMP	G	MCQ	AIC	23-25 00 00	M		M
20	Medical Gas System (MG)	Manifold (including those for O ₂ , N ₂ O, MA4, SA7 and compressed air)	MAN	MAN	G	PPA	VLV	23-25 33 23			M
20	Medical Gas System (MG)	Oxygen VIE Tank	VIE	VIE	G	MCQ	PWS	23-25 00 00	M (Note 6)		
20	Medical Gas System (MG)	Receiver/ Reservoir (including those for medical air and surgical air)	REC	RECV/RES	G	MCQ	PWS	23-25 00 00	M		M
20	Medical Gas System (MG)	Vacuum Pump	VP	VP	G	MCQ	PMP	23-25 00 00	M		M
21	Pneumatic Tube Transport (PTS)	Pneumatic Tube Transport (^)	PTS	PTS	G	N/A		23-23 17 21	N/A		
21	Pneumatic Tube Transport (PTS)	2-Way Diverter	2WD	2WD	G	PPA	VLV	23-23 17 21	M		M
21	Pneumatic Tube Transport (PTS)	3-Way Diverter	3WD	3WD	G	PPA	VLV	23-23 17 21	M		M

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21	Pneumatic Tube Transport (PTS)	Blower Unit	BLW	BLW	G	MCQ	AIC	23-23 17 21	M		M
21	Pneumatic Tube Transport (PTS)	Central Control Unit	CCU	CCU	G	MCQ	CCM	23-23 17 21 13		M	M
21	Pneumatic Tube Transport (PTS)	Dumping Station	DS	DS	G	MCQ	OTR	23-23 17 21			M
21	Pneumatic Tube Transport (PTS)	Empty Carrier Storage Station	ECS	ECS	G	MCQ	OTR	23-23 17 21			M
21	Pneumatic Tube Transport (PTS)	Master Workstation	MW	MW	G	MCQ	OTR	23-23 17 21		M	M
21	Pneumatic Tube Transport (PTS)	Power Pack	PP	PP	G	MCQ	AIC	23-23 17 21			M
21	Pneumatic Tube Transport (PTS)	Sending and Receiving Station	SRS	SRS	G	NCD	NST	23-23 17 21			M
22	Internet-of-thing Installation (IoT)	Internet-of-thing Installation-Sensor ([^])	N/A	SEN	N	N/A		23-27 11 00		N/A	
22	Internet-of-thing Installation (IoT)	Air Quality Sensor	N/A	IAQ	N	ELF	SNR	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Controller & Convertor	N/A	CTR	N	ELQ	OTR	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Current Transformer Sensor	N/A	CTS	N	ELF	SNR	23-35 13 11		M	M
22	Internet-of-thing Installation (IoT)	Distance Sensor	N/A	DIS	N	ELF	SNR	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Display Unit	N/A	DIU	N	ELQ	OTR	23-29 13 00		M	M
22	Internet-of-thing Installation (IoT)	IoT Gateway	N/A	GTW	N	ELQ	OTR	23-37 13 17 21		M	M
22	Internet-of-thing Installation (IoT)	Level Detection Sensor	N/A	LVL	N	ELF	SNR	23-27 11 21 23		M	M
22	Internet-of-thing Installation (IoT)	Light Sensor	N/A	LIG	N	LTD	DYS	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Location Tracker	N/A	LOC	N	ELQ	OTR	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Magnetic Door Sensor	N/A	MAG	N	ELF	SNR	23-17 19 11 29 11		M	M
22	Internet-of-thing Installation (IoT)	Occupancy Sensor	N/A	OCS	N	LTD	OPS	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	People Counting Sensor	N/A	PCT	N	ELF	SNR	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Toggle Button	N/A	BUT	N	ELQ	OTR	23-35 37 49		M	M
22	Internet-of-thing Installation (IoT)	Vehicle Occupancy Sensor	N/A	VOC	N	ELF	SNR	23-27 11 00		M	M
22	Internet-of-thing Installation (IoT)	Vibration Sensor	N/A	VIB	N	ELF	SNR	23-29 11 23 29		M	M
22	Internet-of-thing Installation (IoT)	Water Leakage Sensor	N/A	LEK	N	ELF	SNR	23-29 39 15 13 13		M	M
23	High Voltage Power Supply (HV)	High Voltage Power Supply System ([^])	N/A	HV	N	N/A		23-35 00 00		N/A	
23	High Voltage Power Supply (HV)	HV Switchboards	N/A	HVB	N	ELQ	LAS	23-35 31 29	M		M
23	High Voltage Power Supply (HV)	Step Down Transfomer	N/A	SDT	N	ELQ	TRN	23-35 13 15 13	M		M
24	Private Automatic Branch Exchange System (PX)	Private Automatic Branch Exchange System ([^])	N/A	PX	N	N/A		23-37 13 00	N/A		
24	Private Automatic Branch Exchange System (PX)	Backup Batteries	N/A	BAT	N	ELQ	LAS	23-35 19 00			M
24	Private Automatic Branch Exchange System (PX)	Network Switch/ Console/ PBX Server	N/A	NES	N	ELF	SWC	23-37 13 17 25			M
25	Automatic Refuse Collection System (ARCS)	Automatic Refuse Collection System ([^])	N/A	ARCS	N	N/A		23-39 45 27	N/A		
25	Automatic Refuse Collection System (ARCS)	Automatic Refuse Collection System Compactor	N/A	ARCSP	N	MCQ	OTR	23-39 45 27			M
25	Automatic Refuse Collection System (ARCS)	Automatic Refuse Collection System Container	N/A	ARCST	N	MCQ	OTR	23-39 45 27 13			M
25	Automatic Refuse Collection System (ARCS)	Automatic Refuse Collection System Exhauster	N/A	ARCSX	N	MCQ	OTR	23-39 45 27			M
A1	Plumbing System (PL) (Note 7)	Plumbing System ([^])	PL	PL	G	N/A		23-31 00 00	N/A		
A1	Plumbing System (PL) (Note 7)	Booster Pump	BPMP	BP	G	MCQ	PMP	23-27 17 00			M
A1	Plumbing System (PL) (Note 7)	Electric Heater	EHT	EHT	G	PLM	WHT	23-31 29 11 11			M
A1	Plumbing System (PL) (Note 7)	Fresh Water Pump	N/A	FWP	G	MCQ	PMP	23-27 17 00			M
A1	Plumbing System (PL) (Note 7)	Flushing Water Pump	N/A	FLWP	G	MCQ	PMP	23-27 17 00			M
A1	Plumbing System (PL) (Note 7)	Gas Heater	GAH	GAH	G	PLM	WHT	23-31 29 11 13			M
A1	Plumbing System (PL) (Note 7)	Local Motor Control Panel ([*])	LMCP	LMCP	N	ELQ	PAN	23-27 15 25			M
A1	Plumbing System (PL) (Note 7)	Portable Water Pump	N/A	PWP	G	MCQ	PMP	23-27 17 00			M
A1	Plumbing System (PL) (Note 7)	Pressure Vessel	PVES	PVES	G	MCQ	PRV	23-31 00 00			M
A1	Plumbing System (PL) (Note 7)	Pressure Reducing Valve	PRV	PRV	G	PPA	VLV	23-27 31 47			M
A1	Plumbing System (PL) (Note 7)	Transfer Pump	TPMP	TPMP	G	MCQ	PMP	23-27 17 00			M
A1	Plumbing System (PL) (Note 7)	Water Filter for Drinking Fountain	N/A	DF	G	MCQ	OTR	23-31 31 00			M
A2	Drainage System (DR) (Note 7)	Drainage System ([^])	DR	DR	G	N/A		23-39 29 00	N/A		
A2	Drainage System (DR) (Note 7)	Local Motor Control Panel ([*])	LMCP	LMCP	N	ELQ	PAN	23-27 15 25			M
A2	Drainage System (DR) (Note 7)	Rainwater Sump Pump	RWSP	RWSP	G	MCQ	PMP	23-27 17 00			M
A2	Drainage System (DR) (Note 7)	Soil and Waste Water Sump Pump	SWSP	SWSP	G	MCQ	PMP	23-27 17 00			M
A2	Drainage System (DR) (Note 7)	Waste Water Sump Pump	WWSP	SP	G	MCQ	PMP	23-27 17 00			M
A3	Water Leakage Detection System (LDS)	Water Leakage Detection System ([^])	LDS	LDS	G	N/A		23-29 39 15 13 13	N/A		
A3	Water Leakage Detection System (LDS)	Leak Detection Panel	LDP	LDP	G	ELQ	PAN	23-29 39 15 13 13			M
A4	Mechanical Handling & Lifting Installation (MHL)	Mechanical Handling & Lifting Installation ([^])	MHL	MHL	G	N/A		23-23 13 00	N/A		
A4	Mechanical Handling & Lifting Installation (MHL)	Gondola ([*])	GON	GON	G	SPQ	BMU	23-23 17 00			M

Note 1: Paper asset tags for lifts shall be provided underneath the “use permit” inside lift cars.

Note 2: Paper asset tags for escalators shall be provided underneath the “use permit”.

Note 3: Mandatory for cylinders, but not mandatory for control panel and nozzles. The asset tag shall be installed on the corresponding gas suppression system control panel.

Note 4: Mandatory for control panel, but not mandatory for all detectors.

Note 5: The asset information for network switch and display unit shall follow the asset template of “Accessories” or “Miscellaneous”.

Note 6: The RFID tag should be tied to the metal fencing outside the concrete enclosure of oxygen VIE tank.

Note 7: Requirements for all plumbing and drainage equipment should be with reference to the related BIM standards or guidelines issued by Architectural Services Department (ArchSD) and Drainage Services Department (DSD).

Note 8: Please note that Closed Circuit TV System (CCTV) shall refer to non-burglar alarm purpose such as CCTV at LVS room, people control and thermal camera.

Note 9: (^{*}) Except LV Switchboard, Generator and Cold Room/ Store, Level 1 system cannot be drawn in model , and is created by means of asset templates via AIMP.

Note 10: Project BIM Manager may further create other system types if any specific system is not listed above. And the system name and coding used in a project should be agreed by all parties and documented in the project execution plan.

Note 11: Those equipment marked with (^{*}) is not in EMSD asset templates. The asset information shall follow table 6.2 in BIM-AM Standards and Guideline Section 6.