

5D BIM QTO REQUIREMENT					
BIM Model LOD/Provision (General BQ/SOR in compliance with HKSMM4)					
Item	System	Sub-system	Component	Required Info	Unit
1	Fire Services	Automatic Sprinkler System	Pumps	Equipment ID Tag, flow rate (capacity), electrical circuits, labels, ancillary equipment, fixing accessories, fixing location.	No.
2	Fire Services	Automatic Sprinkler System	Pipework	Material, class, system type, size or diameter, location	Run
3	Fire Services	Automatic Sprinkler System	Valves	Material, type, size, functionality	No.
4	Fire Services	Automatic Sprinkler System	sprinkler heads	Type, functionality, fixing method or location	No.
5	Fire Services	Automatic Sprinkler System	Instrumentation	Type, functionality, fixing location, for which type of equipment and tag ID.	No.
6	Fire Services	Automatic Sprinkler System	Tank	Capacity (Litre), material, type, tank accessories etc.	No.
7	Fire Services	Fire Hydrant & Hosereel	Pumps	Equipment ID Tag, flow rate (capacity), electrical circuits, labels, ancillary equipment, fixing accessories, fixing location.	No.
8	Fire Services	Fire Hydrant & Hosereel	Pipework	Material, class, system type, size or diameter, location	Run
9	Fire Services	Fire Hydrant & Hosereel	Valves	Material, type, size, functionality	No.
10	Fire Services	Fire Hydrant & Hosereel	Fire hydrants (outlet)	Material, Type, Size or Dia.	No.
11	Fire Services	Fire Hydrant & Hosereel	Hose reels	Type, Size, location	No.
12	Fire Services	Fire Hydrant & Hosereel	Instrumentation	Type, functionality, fixing location, for which type of equipment and tag ID.	No.
13	Fire Services	Fire Hydrant & Hosereel	Tank	Capacity (Litre), material, type, tank accessories etc.	No.
14	Fire Services	Gaseous Flooding System	Gas cylinders	Type, capacity, kg	No.
15	Fire Services	Gaseous Flooding System	Pipework	Material, class, system type, size or diameter, location	Run
16	Fire Services	Gaseous Flooding System	Switches	Type, equip name, functionality, location	No.
17	Fire Services	Gaseous Flooding System	Valves	Material, type, size, functionality	No.
18	Fire Services	Gaseous Flooding System	Control panel	Type, Equip ID no., location, functionality, no. of zone, no. of BMS point, electrical provision, control circuit	No.
19	Fire Services	Gaseous Flooding System	Instrumentation	Type, functionality, fixing location, for which type of equipment and tag ID.	No.
20	Fire Services	Gaseous Flooding System	Gas Tank	Capacity (Litre), material, type, tank accessories etc.	No.
21	Fire Services	Automatic Fire Alarm	Smoke detectors	Type, fixing location, FS modules	No.
22	Fire Services	Automatic Fire Alarm	Heat detectors	Type, fixing location, FS modules	No.
23	Fire Services	Automatic Fire Alarm	Breakglass units	Type, location, FS modules	No.
24	Fire Services	Automatic Fire Alarm	Alarm bells	Type, Size, location, FS modules	No.
25	Fire Services	Automatic Fire Alarm	Visual fire alarm	Type, Size, location, FS modules	No.
26	Fire Services	Automatic Fire Alarm	AFA panels	Type, Equip ID no., location, no. of zone, no. of BMS point, electrical provision, control circuit	No.
27	Fire Services	Automatic Fire Alarm	Other types of panels	Type, Equip ID no., location, functionality, no. of zone, no. of BMS point, electrical provision, control circuit	No.
28	Fire Services	Electrical Power and Control	Local motor control panels for pumps	Type, Equip ID no., location, functionality, no. of zone, no. of BMS point, electrical provision, control circuit	No.

29	Fire Services	Electrical Power and Control	Final circuit (power & control) to individual panels, field devices, equipment	size of cable and wiring, from point to point, location, electrical provision	No.
30	Fire Services	General Works	Sign board or E&M Signage	Refer to the Specification.	No.