

5D BIM QTO REQUIREMENT

BIM Model LOD/Provision
(General BQ/SOR in compliance with HKSM4)

Item	System	Sub-system	Component	Required Info	Unit
1	Electrical	Main Distribution	Busduct	Type, Amp, phase system, size, location and fire rated protection if any	Run
2	Electrical	Main Distribution	Cables (different types)	Type, Size and number of cores, FR, Armoured Cable (Except Final Circuit)	Run
3	Electrical	Main Distribution	Cables changing box	Type, Overall Size, Cable Size & Phase for adoption, IP rating	No.
4	Electrical	Main Distribution	Cable glands	Type, Cable Size, Phase System	No.
5	Electrical	Main Distribution	Busbar chambers	Material, Type, Amp, phase, no. of copper bar, no. of outgoing circuit, location	No.
6	Electrical	Main Distribution	Moulded case circuit breakers (MCCB) distribution board	No. of way, Amp, Phase, Location, ID Tag.	No.
7	Electrical	Main Distribution	Miniature circuit breakers (MCB) distribution board	No. of distribution, Amp, Phase, board schedule, Location, ID Tag.	No.
8	Electrical	Main Distribution	Consumer units	Type, Amp, size, phase and location	No.
9	Electrical	Main Distribution	Switch fuses	Type, Amp, size and location	No.
10	Electrical	Main Distribution	MCCB	Type, Amp, Phase, refer to DB details	No.
11	Electrical	Main Distribution	MCB	Type, Amp, Phase, refer to DB details	No.
12	Electrical	Main Distribution	RCCB	Type, Amp, Phase, refer to DB details	No.
13	Electrical	Main Distribution	RCDO	Type, Amp, Phase, refer to DB details	No.
14	Electrical	Main Distribution	Contactors	Type, Amp, size, Phase, Tag no. and location	No.
15	Electrical	Main Distribution	Timer switches	Type, size, sub-system name and location	No.
16	Electrical	Main Distribution	Wooden board for electric company kWh meter	Size and location, functionality	No.
17	Electrical	Main Distribution	Isolating switches	Type, Amp, Size, Phase and location	No.
18	Electrical	Main Distribution	Fuse switches	Type, Amp, Size, Phase and location	No.
19	Electrical	Lighting and Small Power	Lighting fittings (different types)	Size and Type, lighting schedule code, fixing method, Weatherproof, location, battery unit	No.
20	Electrical	Lighting and Small Power	Lighting switches (different types)	Size and Type, Amp, fixing method, lighting zone, weatherproof, location	No.
21	Electrical	Lighting and Small Power	Battery backup	To be included in the above item. No. of Hrs of backup and type.	No.
22	Electrical	Lighting and Small Power	Final circuits	Location, size and no. of cable and wiring, from point to point, distribution board reference.	No.
23	Electrical	Lighting and Small Power	Socket outlets (different types)	Type, Amp, Size, Phase, with switch (if any)	No.
24	Electrical	Lighting and Small Power	Fused connection units (different types)	Type, Amp, Size, Phase, with Pilot light	No.
25	Electrical	Lighting and Small Power	DP switches (different types)	Type, Amp, Size, Phase and location	No.

26	Electrical	Lighting and Small Power	Isolators (different types)	Type, Amp, Size, Phase and location	No.
27	Electrical	Lighting and Small Power	Final circuits	Size of cable and wiring, from point to point, location, electrical provision	No.
28	Electrical	Cable runking and tray	Trunking (different sizes & for different systems)	No. of compartments, size (width and height), system name (e.g. ELV)	Run
29	Electrical	Cable runking and tray	Cable trays (different sizes & for different systems)	No. of compartments, size (width), system name	Run
30	Electrical	Cable runking and tray	Cable ladders trays (different sizes)	Material, type, size (width)	Run
31	Electrical	Cable runking and tray	Conduits (different materials and for different services) [other than those for final circuits as mentioned above]	Diameter, Type, Material, Junction Box	Run
32	Electrical	Lightning	Air termination equipment	Material, Type, Size and location	No.
33	Electrical	Lightning	Copper / aluminium tapes	Material, Type, FR enclosure, size (width x thickness)	Run
34	Electrical	Lightning	Earthing conductor	Material, Type, FR enclosure, Overall size	No.
35	Electrical	Earthing and bonding	Copper / aluminium tapes	Type, Material, Size (width x thickness), enclosure	Run
36	Electrical	Earthing and bonding	Cables	Type, Size and number of cores, FR, Armoured Cable (Except Final Circuit)	Run
37	Electrical	Earthing and bonding	Equipotential bonding	Equipment name, cable, bonding method, connection point and fixing details	No.
38	Electrical	Earthing and bonding	Earth electrodes (to state the size)	Diameter, Type, location.	No.
39	Electrical	General Works	Sign board or E&M Signage	Refer to the Specification.	No.