Dear M&E Consultants

This circular is to update the electrical design requirements for HDB’s Projects.

We would like to highlight the following items to be consider during design:

a) **LED at common area for commercial premises**
   LED luminaire of approved type or from Material List shall be used along common area of commercial premises (standalone commercial block). Projects under construction which used T5 fixture will be replaced by LED fixture. The changes shall take immediate effect for future BTO projects and those BTO projects tender which are not closed yet.

b) **Copper wire with block terminal & fibre cable with fibre termination Point for commercial premises**
   There are feedback on delay in pulling of copper wires to some commercial units. Consultant shall highlight such incident and provide fibre cabling and fibre termination point to those affected shops. Provisions for both copper and fibre cabling including termination shall take immediate effect for future BTO projects and those BTO projects tender which are not closed yet.

c) **Electric Vehicles (EV) Charging**
   To support the roll out of the EV car-sharing programme, Consultant shall consider the electrical provision for future EV charging terminals in indoor car park.
   The following provision shall be provided for future EV Charging Terminal (Supporting up to 5 lots of EV charging terminals):
   i) Provision of design electrical load of 3 phase 100A at Indoor Car Park.
   ii) TP&N MCCB, sealed in ‘OFF’ position, at the unmetered busbar of the main switchboard of Indoor Car Park
   iii) A metering panel in lockable metal enclosure located outside the consumer switch room (CSR) for PG meter in future.
   iv) Outgoing cables from respective CSR to an isolator of equivalent rating at the designated charging car park lots.
The above provision are applicable for:
   i) New car parks under the BTOs tenders and
   ii) Existing car park identified for upgrading or improvement works.

d) **Location of lift well and E&I panel**
Lift system such as brake of lift machine from lift well and contactors inside E&I panel from duct generate noise. Where possible, for machine roomless lift, the lift well shall not abut or face dwelling unit, and duct for the E&I panel shall be located away from dwelling units to minimize nuisance to residents due to noise generated by the lift system.

e) **Blown fuse indicator**
With immediate effect, in switch board or distribution board where fuses are used for control and auxiliary circuits, fuse carriers with blown fuse indicator shall be specified. This indicator will allow for easier fault identification and faster service restoration.

Should you have any other clarifications, you may contact me. Thank you.

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Best regards
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