

- 11.9.1.10 Technical Justification shall be submitted for availing direct 11kV supply to the high-rise building for locating transformers above ground level/s. This depends on the height of the building, size of load, type of load, etc. Normally, buildings of height 200m or above shall be considered for direct 11kV supply.
- 11.9.1.11 MV Switchgear shall be suitable for termination of 3x240 mm² XLPE/PVC/SWA/PE Aluminum/ Cu Cable with heat shrinkable type cable terminations.
- 11.9.1.12 Termination at the private MV switchgear incomer shall be done by the consumer and terminations at DEWA RMU shall be done by DEWA.
- 11.9.1.13 Suitable protection and interlocking shall be provided to ensure that a private substation shall not have any negative impact on the DEWA system.
- 11.9.1.14 There shall be sufficient discrimination between DEWA protection and that of the private substation so that the protection at private substation operates earlier to the DEWA protection during fault.
- 11.9.1.15 Mechanical and electrical interlocks shall be provided so that the incomers shall not be paralleled. In substations with multiple switchboards, the interlock shall be extended to all the switchboards.
- 11.9.1.16 The drawings shall use ANSI standard codes for depicting protection relay functions as well as contain a legend.
- 11.9.1.17 The incomer protection relays shall comply with IEC 60255 and shall be supported by type test and guaranteed routine manufacture's works test certificates. Only certificates confirming that the relay has passed the type tests needs to be submitted to DEWA.
- 11.9.1.18 The over current relay shall operate correctly for fault currents up to 25 kA.
- 11.9.1.19 The instrument transformers shall comply with IEC 61869 and be supported by type test certificates and guaranteed routine manufacture's works test certificates. Only certificates confirming that the current transformers have passed the type tests needs to be submitted to DEWA.
- 11.9.1.20 The incomer current transformer shall be dimensioned so that the protection scheme will operate effectively for a fault current of 25 kA.
- 11.9.1.21 Reverse power protection shall be provided to ensure that in-feeds to faults within the DEWA 11 kV network are cleared within 3 seconds.