



Compact Or Package Substation



Features

- ✦ Transformers from 200kVA to 3MVA
- ✦ Extensible and non-extensible type MV switch gears upto 33kV
- ✦ LV ACB and MCCB feeder pillars and cabinet
- ✦ Automation & monitoring systems

Benefits

- ✦ Directly mounted MV switchgear & LV fusegear: Smaller foundations
- ✦ Costly cabling eliminated: Reduces overheads
- ✦ Can be delivered as a single unit: Improved logistics
- ✦ Controlled factory assembly of switchgear : Safe
- ✦ One point of contact : Easy specification

Applications

- ❖ Energy
- ❖ Infrastructure
- ❖ Commercial



Compact Substation

Packaged or Compact substations is a fully compartmentalized substation kept inside a prefabricated enclosure with MV switchgear, transformer & LV switchgear. Our compact substations are specially designed with highest possible standards for personnel safety, suitable ventilation system to suit local climatic conditions. And also it is tailored to individual customer requirements using products from comprehensive range, providing a convenient, single source packaged substation with minimum time and cost and also help to solve problems of space limitations experienced in the installation premises

Construction

ENCLOSURE

The enclosure of the CSS is manufactured using high quality pre-galvanized sheet steel. This provides high resistance to corrosion, which is paramount in outdoor applications. CSS is typically divided into three compartments for medium voltage switchgear, low voltage switchboard and distribution transformer. The detachable roof with ventilation opening is beam supported and secured at each corner with bolts. The enclosure's wall units, roof and doors are constructed using standard modules.

SWITCHGEAR

The Medium voltage switchgear inside the CSS may be Free standing SF6 RMU, 12KV 630A Vacuum Circuit Breaker, SF6 insulated ring switch with vacuum circuit breaker with fully interlocked protection and padlocking facilities. It also contains Single line mimic diagram for simple and safe operation with the presence of Voltage & earth fault indicators.

TRANSFORMER

The transformer inside the CSS may be of Wide range up to 1000kVA. It is highly energy efficient thus minimising losses, the transformers may be dry or sealed type with or without Off-load tap changer, with winding temperature and oil monitoring relay.

LV SWITCHBOARD

The LV switchboard inside the CSS is of Circuit switching using Moulded Case Circuit Breakers protection (MCCB) with MCCB type of incomer up to 1600A, MCCB type of outgoing feeders up to 400A, with Feeder terminals suitable for both Cu /Al and Current transformers for power metering.



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