

415 V LV Switchboard Specs

DESIGN REQUIREMENTS

- 1) Original Equipment Manufacturers(OEM) only shall supply the panels. Offers from system house/Franchise of OEM are not acceptable
- 2) Suppliers shall have their own Engineering and R&D for panels and product development
- 3) Panel shall be Type tested for DOP , Temp Rise and STC in line with IEC61439
- 4) Panel shall be Internal Arc Tested and Seismically Qualified .
- 5) Upto 1600A ACB Outgoing feeders shall be mounted in Two Tier construction .
- 6) Operating height shall be limited to minimum of 200 mm and maximum of 2100 mm .
- 7) Panel shall be Single front , Non drawout with bottom cable entry .
- 8) Cable access shall be from front for Non ACB feeders .
- 9) DOP shall be IP54 upto 1600A and Above 1600A it shall be IP42 .

BUSBARS (Main and Auxiliary bus bars)

- 1) Busbar shall be Aluminium and Panel shall be suitable for 65 ka 1sec
- 2) PH to PH and PH to E clearance shall be in line with IEC.
- 3) Maximum current density of Busbar shall be limited 1 A/sqmm

ENCLOSURE & COMPARTMENTALIZATION

- 1) All the panels shall be constructed with Form 4b type -6 segregation .
- 2) Paint shade shall be RAL7032

CONSTRUCTIONAL FEATURES IN SWITCHGEAR ASSEMBLY

Components

ACB

- 1) ACB Upto 4000A breaker shall have single frame size
- 2) ACB Breaker Total Operating time shall be 25 msec
- 3) ACB Spring charging time shall be 4sec
- 4) ACB Rated Impulse withstand voltage shall be 12 kv
- 5) For ACB Terminal orientation shall be interchangeable at site itself from Horizontal to Vertical and vice versa

MCCB

- 1) MCCB shall have ICS=100% of ICU
- 2) MCCB shall have Tripping time shall be less than 10ms