



Part of **JINDAL'S** group

Compact Substations (CSS)

Packaged Substations (PSS)



**Residential • Commercial • Industrial Developments
Oil and Gas • Pharma • Chemical Plants • Metal & Mining Industries
Construction Sites • Hospitals and Malls**

**HIGH QUALITY AND
ENERGY EFFICIENT SOLUTIONS**



IS: 1180 (Part-1)



CML No. 9600024411

Compact Sub Stations (CSS)/ Packaged Sub Stations (PSS)

Compact substations are ideal for locations where space and safety is a concern and population density is high. CSS is an enclosed assembly consisting of high/medium voltage switchgear compartment, distribution transformer compartment, and low voltage switchboard compartment along with interconnections to transform energy from medium to low voltage systems.

Technical Specifications

Medium Voltage Compartment

MV Switchgear	3.3 to 33 kV
Type of Switchgear	LBS / SFU / Circuit Breaker / RMU
Insulation Medium	SF6 Gas or Vacuum
Tripping	Fuse / Relay
Short Circuit Rating	21 kA or as per customer requirement

Transformer Compartment

Type of cooling	Oil Immersed
Rating	100 to 2500 kVA
Primary Voltage	3.3 to 33 kV or as per customer requirement
Secondary Voltage	433/415/400 V or as per customer requirement
Phase / Frequency	3 Phase / 50 or 60 Hz.
Vector Group	Dyn11 or as per customer requirement

Low Voltage Compartment

LV Switchgear	ACB's, MCCB's
Current Rating	Up to 4000 Amps
Voltage	440 Volts
No. of Poles	3 / 4
Short Circuit Rating	36 kA or as per customer requirement

Advantages of CSS

- » HT switchgear, transformer and LT switchgear is installed in a common compact setup, thus cabling cost from HT switchgear to transformer and from transformer to LT switchgear is saved
- » Extremely safe and less chances of electrical failure
- » CSS is delivered as a single unit including HT, LT switchgear and transformer. Therefore, saves installation time and logistics cost
- » Prefabricated CSS adopts advanced designing idea, so the size is optimized and has an aesthetic appeal

STANDARD FITTINGS

- » M.S./ CRC Sheet fabricated Enclosure as per IS 14786
- » Load Balancing Lifting Hooks
- » Collapsible hinge mounted doors
- » Perforated sheet & Air ventilation louvers in Transformer section
- » Easy removable rain water protection canopy
- » Inter connecting MV & LV cables & Bus bars
- » Powder coated paint, Shade -RAL 7032 or as per customer request
- » Illuminating lamps with MCB



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Ludhiana - 141010 (India)

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