

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
- For safety doors with alarm & tripping circuit
- Inter connecting MV & LV cables & Bus bars
- Powder coated paint, Shade - RAL 7032 or as per customer request
- Illuminating lamps with MCB

SPECIAL FEATURES

- ➔ Completely Factory built
- ➔ Superior Aesthetics
- ➔ Convenience in portability
- ➔ Ready to install & Commission
- ➔ Compact in size
- ➔ Minimal maintenance
- ➔ Suitable for rooftop & Basement
- ➔ Tamper proof

➔ 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

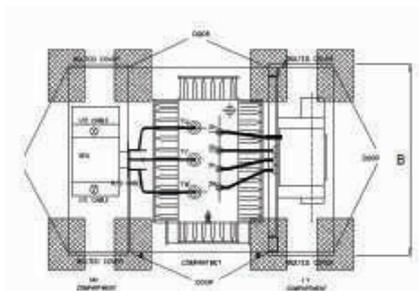
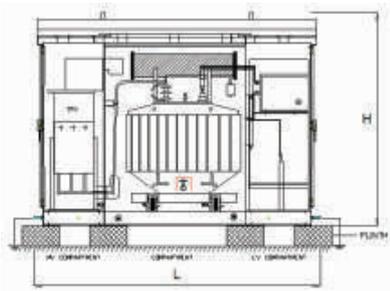
Type of cooling	Oil Immersed / Dry Type
Rating	100 to 2000 kVA
Voltage	3.3 to 33/0.433 kV or any specific
Phase / Frequency	3 Phase / 50 or 60 Hz.
Vector Group	Dyn1 or Dyn5 or Dyn11 or any specific.

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



➔ PRODUCT DIAGRAM



➔ GENERAL DETAILS

Unitised substations are designed for locations where space and safety are a concern, population density is high, such as urban centres. A unitised substation is divided into three sections or compartments—Medium Voltage, Transformer, and Low Voltage Switchboard. Unitised substations are designed in accordance with IS 14786 / IEC 61330 standards with a degree of protection of IP 23 for the Transformer and IP 54 for the MV & LV compartments or as per customer requirements.

Following are the dimensional and weight details for a typical 11kV, Unitised substation with an off-circuit type oil-cooled transformer.

SR. NO.	Rating (kVA)	Overall dimensions (mm)			Approx. WT. (KGS)
		LENGTH (L)	BREADTH (B)	HEIGHT (H)	
1	100 to 250	2600	1800	2000	2500
2	315 to 630	2800	2000	2200	3800
3	750 to 1000	3000	2200	2400	5200
4	1250 to 2000	3200	2400	2600	7000

**Dimensions and weight may vary for any specific or special requirement.*

➔ APPLICATIONS

Airport



IT Industry



Refineries



Mines



Theatre / Mall



Construction Site



➔ ASSURED FEATURES

M.V. Compartments	Transformer Compartment	L.V. Compartment
MV RMU/ VCB/ SFU	On Load Tap Changer with R.T.C.C. panel & AVR	L.T. microprocessor based trip unit
H.T. Metering/ Load manager	Pressure Release valve	L.T. MFM / Load manager
Annunciator & Power pack	W.T.I & O.T.I. with Alarm & Trip contacts	Feeder Pillar (HRC fuse / MCCB Based)
Earth fault, over current relay	Magnetic Oil Gauge with low level contacts	APFCR Panel with capacitor Bank
Scada or P.L.C compatible	Buchholz Relay with Alarm & Trip contacts	L.T. Earth fault & Over current relay