



Power Technology Perfect & Precise

**UNITISED/  
COMPACT  
SUBSTATIONS**



**Indian Transformers & Electricals  
Gurgaon**

## Unitised / Compact / Package Sub-station

The Unitised Sub-station is also known as Compact Sub-station (CSS) & Packaged Sub-Station (PSS). The Unitised Sub-station is a compact arrangement, which replaces conventional sub-station arrangement consisting of Load Break Switch, Vacuum Circuit Breaker, Transformer Distribution Panel, Lightening arresters mounted on a pole structure or on a Platform.

The Unitised Sub-station is designed, keeping in mind the personal safety & aesthetics, considering HT equipment is located in high density urban places. It is a pre fabricated secondary Sub-station consisting of three compartments (i.e.) H.V. Compartment which houses Vacuum Circuit Breaker (VCB) or Load Break Switch (LBS), the transformer compartment which houses dry type /oil cooled transformers & the LV compartment which houses ACB, MCCB, SFU etc. as per client's requirement. All components are housed in an enclosure which protects the equipment against environmental hazards & unauthorized access. The electrical equipments are cooled by natural ventilation.

HV Compartment	Transformer Compartment	LV Compartment
<p>Load break switch with fusetrip &amp; Earth Switch Mechanism, Shunt trip coil HTHRC Fuses</p> <p>_____</p> <p>Vacuum Circuit Breaker with metering &amp; protection using current / potential transformers &amp; relays</p> <p>_____</p> <p>Ring main units Consists of Load Break Switches / VCB Combination.</p>	<p>Oil Immeresed Transformer</p> <p>or</p> <p>Dry type Transformer</p>	<p>LT Control panel with ACB &amp; MCCB or SFU with metering</p>

We Manufacture various modules of Indoor / Outdoor type Unitised Sub-stations upto 36kv class & upto 2500 kva capacity of transformers with HT/LT switchgears. Our Unitised Sub-stations consists of inbuilt safety interlock (both electrical & Mechanical Interlock) to avoid accident in case of opening of doors when the substation is in energised position.

### Advantages

- Fully compartmentalized design
- Easy to install, operate & require very Less Maintenance
- Cost Effective & Space Saving
- Reduced Electrical Losses as USS can be installed near the load centre.
- A high degree of Safety & operational reliability is achieved by HT & LT switchgear with protective relays
- Reduction in logistic cost as the USS is delivered as a single unit
- Tailored Configuration to meet customer requirement
- Due to the enclosed construction, it avoids Bird hit, human / animal contact which may lead to fatal accident and disruption of power supply.
- Aesthetically enhanced look & designed to suit the site topography, which gives pleasing appearance.
- No separate room is required
- Can be installed Indoor & Outdoor.

### Application

- USS are ideally suited for residential and commercial complexes as it can be placed on ground floor or basement or roof top of the high rise buildings
- Mainly used by Power Utilities, Multiplex, Hotels, Hospitals, Shopping Malls, Software Parks, Airports & Residential complexes etc.

**PRODUCTS** G Vacuum Circuit Breakers G Servo Voltage Controllers / Stabilizers G Unitised / Compact Substations

G Transformers { o Power o Distribution o Furnace Duty o Converter Duty o Isolation / Shielded o Scott o Buck & Boost

**APPROVALS & REGISTRATIONS** ✦ E-in-C (Defence) ✦ MAP ✦ Railways ✦ BSNL ✦ MTNL ✦ DGS&D ....



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