

INDIAN
Transformers
and Electricals
Pvt. Ltd. Gurgaon



An ISO 9001:2015 unit



Power Technology Perfect & Precise

**UNITISED/
COMPACT
SUBSTATIONS**



**Indian Transformers and Electricals Pvt. Ltd.
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, Lightning 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 & Earth Switch Mechanism, Shunt trip coil HTHRC Fuses</p> <hr/> <p>Vacuum Circuit Breaker with metering & protection using current / potential transformers & relays</p> <hr/> <p>Ring main units Consists of Load Break Switches / VCB Combination.</p>	<p>Oil Immersed Transformer</p> <p>or</p> <p>Dry type Transformer</p>	<p>LT Control panel with ACB & 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

TRANSFORMERS (OIL/DRY)

VCBs / LBS

VOLTAGE CONTROLLERS / AVR's

PANELS

COMPACT SUB-STATIONS

APPROVALS & REGISTRATIONS

✦ E-in-C (Defence) ✦ MAP ✦ Railways ✦ BSNL ✦ MTNL & more



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Note : Specifications, Features & Information etc. given may vary & are subject to change with any prior notice & manufacturer is not liable for any loss and or damage due to any reason whatsoever. Our Scope of work limits upto design, manufacture, testing & delivery of our products at our works.(unloading, installation & commissioning etc. do not come under our scope of work)