



Dear Sirs,

We are happy to announce that **EXPEL PROSYS PRIVATE LIMITED** is now associated with **Larsen & Toubro Ltd.**, for manufacturing & Sale of their Low Voltage **“Ti” design Switchboard**.

Expel Prosys Pvt, Ltd., is appointed as Franchise for manufacture and sale of Low Voltage Switchgear & Controlgear assemblies in “Ti” design conforming to L & T’s design and manufacturing guidelines with L & T supplied components & switchgear products.

“Ti” design is fully Type Tested assembly in accordance with IEC 61439 (Performance guaranteed) for Low Voltage Switchgear & Controlgear assembly.

What Does “Ti” Stands For

✓ Safety

Higher Withstand Capacity

Internal Arc Withstand Capacity of 70 KA for 0.5 Secs

Design Verified for Short Circuit Withstand upto 70KA for 1 Sec

Seismic Zone V certified

Unique Busbar Arrangement – Conventional & Double Deck Arrangement

Best in-class Insulation

Better Clearance - Significantly higher clearance than prescribed by IEC61439-2 (14 mm)

Higher ingress protection

✓ Reliability

Compliance to latest IEC 61439- 1 & 2

Third party NABL certified reputed testing laboratories(ERDA & CPRI)

Design verification in compliance to latest IEC 61439

Construction Characteristics

Mechanical Impact Test

Resistance to Corrosion

Thermal Stability of enclosures

Glow Wire Test

Lifting, Marking

Head Office :

SF/34-38 Hiravanti Chambers,
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Karelibaug, Vadodara-390018.
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Factory Address :

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Close profile structure - Design with close profile structural member over the conventional C, H and G type

Useful longer life

Protection against mechanical damage

Higher impact resistant

It is an international numeric classification for the degrees of protection provided by enclosures to electrical equipment against external mechanical impacts

Verified for higher impact resistant (IK 10) as per IEC 62262(2002)-relates to IK ratings

Compliance to latest IEC standard

Perfectly matched L&T switchgear for you

√ Convenience

Wide cable alley - Equipped with 300 mm cable alleys & Optional ad-on chamber (AOCs) to increase the width of cable alley

Single tool for assembly

Common structure through out the range & Structural parts connected by common hardware :

Nut-serts

Flexible panel configuration Busbar - Top and Bottom busbar option, Sleeved and non sleeved busbars,

Shared and non-shared dropper options

Flexible panel configuration-Height wise – 1800, 2000, 2200, 2400 mm

√ IEC 61439 Switchboard

Switchboard Design is certified by NABL accredited labs eg. ERDA, CPRI

13 Type Tests as per IEC 61439 are performed on switchboard

Minimum safety requirements are met by Design and Routine verification

Scope of responsibility of Original manufacturer (L & T) and Assembly manufacturer is clear

Temperature Rise lies between acceptable limits of standard

Rated Short Circuit withstand of switchboard is verified

Strength of material is tested as per International standard (Ex-Mechanical impact, lifting, corrosion etc)

Thermal Stability of enclosure is verified for the minimum requirements

Sufficient Clearances and Creepage distances are maintained

Reliability of Switchboard is ensured

Switchboard is tested for Electromagnetic Compatibility

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✓ **Type Tested Assembly for**

Dielectric Properties

Temperature Rise Limits

Short Circuit Withstand strength

Electromagnetic Compatibility

Mechanical Function

✓ **Compliance to latest IEC Standard IEC 61439 - 1 & 2**

Designed up to 5000 Amp

Stringent fault withstand capacity up to 70 KA for 1 Sec

Double Deck Bus Bar System

Ingress Protection up to IP54 and IP2X after opening door

Best in-class Insulation

Adequate space for cabling

Flexibility in Bus bar & Cable entry

✓ **Advantages to Stake Holders**

Satisfies requirements of Designer, Manufacturer and Users of new generation of Switchboards.

Ensures Safety of person & Equipment, Uninterrupted Electrical Supply, Reliability & Conformity of product throughout product life cycle.

Standard imposes major requirement for designing the system such as influence of switchgear component and panel components on each other, and influence of environment.

Guidelines for protection against electrical, mechanical and structural hazards.

For, Inquiry Contact us

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