



POWERING THE FUTURE

Engineering Fully Integrated Power & Energy Solutions for
Tomorrow's Infrastructure

End to End Electrical Systems

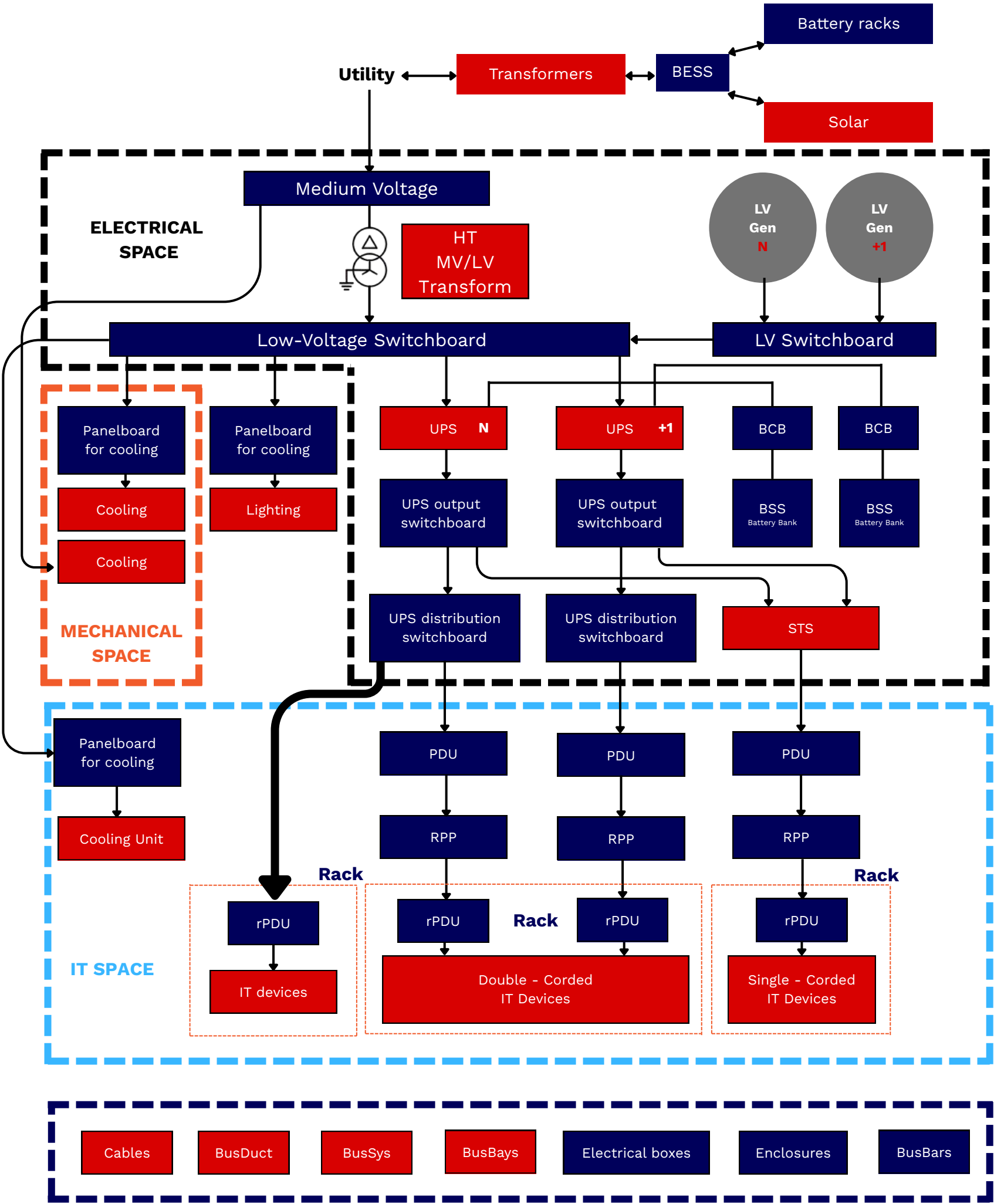
Our portfolio covers solutions from the outside to the inside of the data hall



Indicates Brick and Byte's Scope



Indicates Third party supply Scope



About Us

Brick and Byte is a Navi Mumbai-based manufacturer delivering engineered electrical systems for mission-critical and industrial environments. We integrate design, fabrication, assembly, and testing under one roof to ensure performance, reliability, and scalability.

OUR MISSION

Our mission is to provide innovative, reliable, and safe power and energy solutions that empower various industries. We are dedicated to delivering exceptional quality and service, ensuring our customers have access to the energy they need to thrive.

OUR VISION

Our vision is to be a leading provider of advanced electrical system, shaping the future of energy management. We aspire to create a sustainable and connected world, where our solutions enhance safety, efficiency, and environmental responsibility for generations to come.



Green Initiatives

Tree Plantation Drive

Successfully planted 20,000 trees, contributing to environmental conservation and enhancing biodiversity. Emphasis on creating green belts around the facility and in the surrounding community.

Impact:

- Reduced carbon footprint by increasing carbon sequestration.
- Improved air quality and fostered a healthier ecosystem.
- Strengthened community engagement through participation in the drive.

Paperless Organization Initiative

Transitioning to a paperless workflow to minimize environmental impact. Digitalizing key processes such as documentation, approvals, and communication.

Key Features:

- Implementation of secure cloud storage systems for data management.
- Adoption of e-signatures to replace physical document signing.
- Use of collaborative tools for real-time digital communication.

Impact:

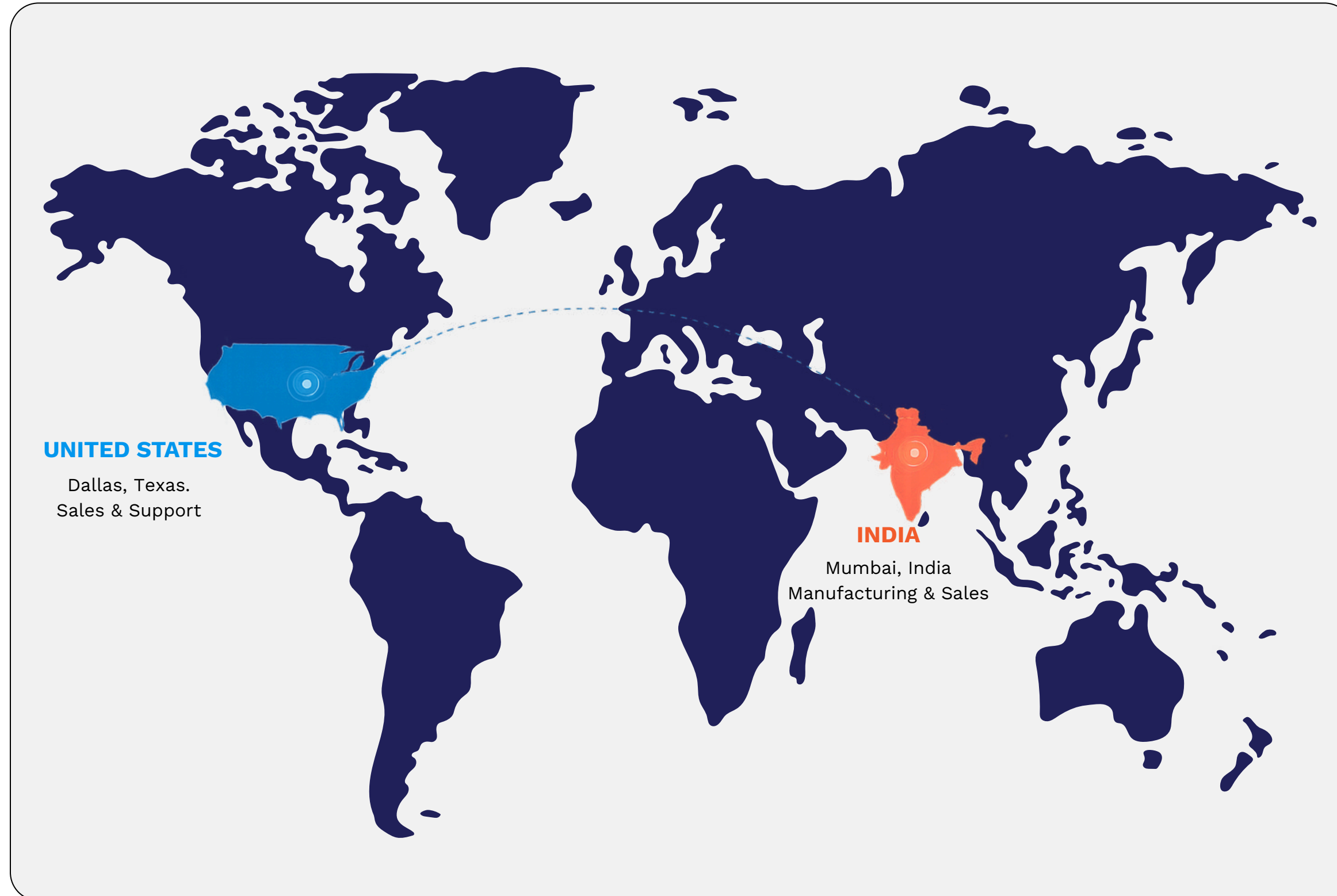
- Reduced paper consumption, saving trees and water.
- Lower operational costs and improved efficiency.
- Enhanced data security and ease of access.

Wind Energy: Commitment to Sustainability

Significant investments made to ensure that the future is sustainable by investing in wind energy generation farms.



Global Presence



Manufacturing & Sales (HO)

Navi Mumbai, Maharashtra, India

Integrated facility for precision designing, fabrication, assembly, and testing of electrical systems.



Sales Office

Pune, Maharashtra, India

Vadodara, Gujarat, India

Dedicated center for customer engagement, solution consulting, and project support.



Sales Office & Warehouse

Dallas, Texas, United States

Technical-commercial hub for sales operations, inventory management, and efficient order fulfillment

Our Founder



Prashant Kamat

Founder

An astute businessman and first-generation entrepreneur, he is a Mechanical Engineer with over 25+ years of extensive experience working with leading international organizations across diverse industries. Over the course of his career, he has demonstrated a strong ability to identify emerging opportunities, build scalable operations, and drive sustainable growth.

He has successfully established and expanded businesses across multiple domains, including Manufacturing, Integrated Engineering Services, IT & Software Solutions, Product Engineering, and the Renewable Energy sector. His leadership is characterized by a strategic vision combined with deep technical expertise, enabling him to bridge the gap between innovation and execution.

Known for his hands-on approach and commitment to excellence, he has consistently delivered high-impact results while fostering long-term partnerships and driving organizational growth in competitive global markets.

Meet Our Team



Ruchil Kamat

Director - Growth & Innovation

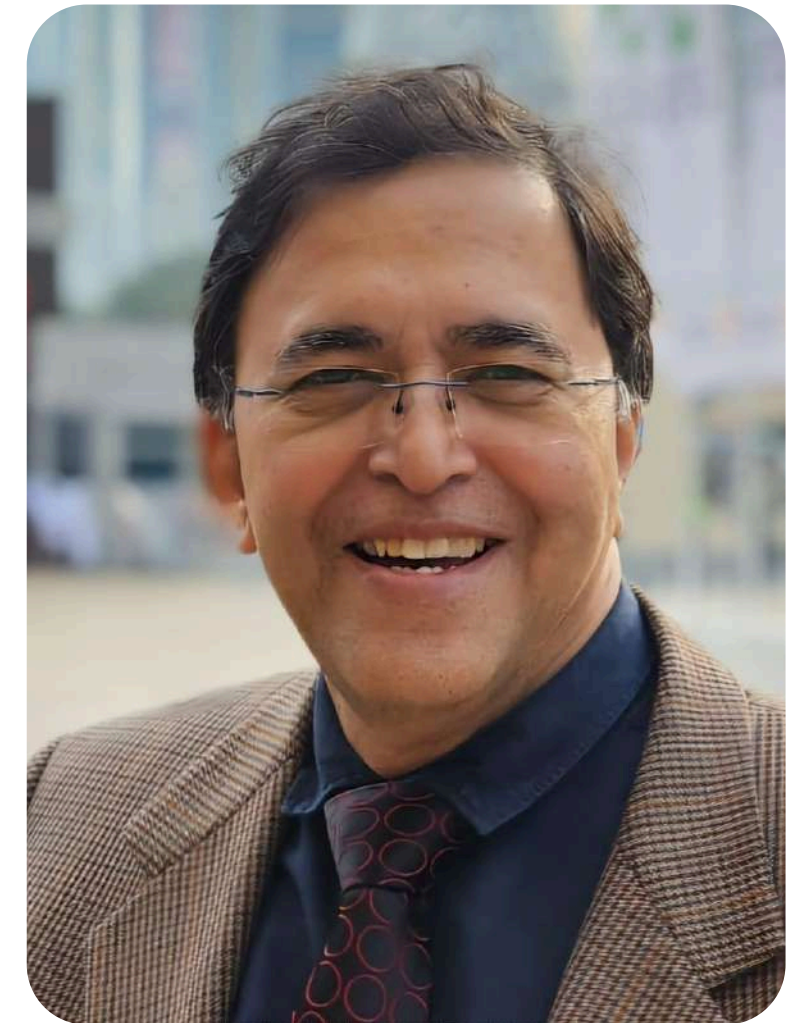
BS in Mechanical Engineering & Engineering Management (US). Extensive experience in HV grid hardening, design QC, and PM.



Ruta Kamat

Director - Marketing

10+ years of experience, MSc Marketing & Strategy from Warwick Business School. Analytics expertise at Daimler Trucks. Founder of Good Graze.



Dhananjay Kudalkar

Director

37 years at Siemens in switchboards - design, manufacturing, quality, and SME partner development including SIVACON and Siepan.

Meet Our Team



Dr. Pravin Salinkar

Advisory member

PhD from IIT Mumbai. Scientist with DRDO. Expertise in Automotive, Solar, Aerospace, Defence, and Software industries.



Sandesh Patil

Head - LV Business

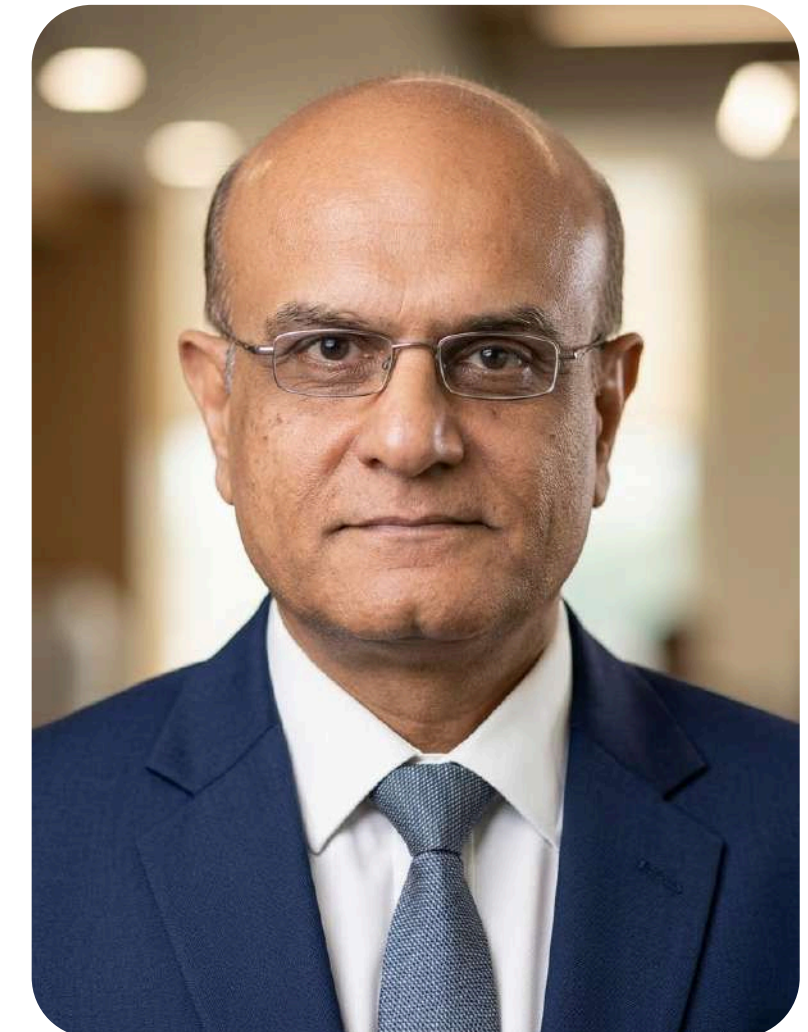
Over 20 years of experience in switchboards, power distribution solutions, bid management, sales strategy, and business development.



Suketu Vichhivora

BU Head - BESS & Renewables

Over 40 years of experience spanning technology infrastructure, telecom, manufacturing, business development, and energy solutions.



Pramod Mahimkar

Director - Manufacturing

Over 37 years of experience spanning engineering design, manufacturing, project management, procurement, & business excellence.

Our Partnerships

Low Voltage Partners



MODUTEC
Simplifying Panel Building

Medium Voltage Partner



stelmec[®]
beyond boundaries

Solar EPC



SORIGIN[®]

Liquid Cooling Partners



KühlTherm

BESS Partner



Ex/Flameproof Partner



SHYAM
FLAMEPROOF

Preferred Distributor



Vashi

LT / HT Cables Partner



APAR

MEP & Civil Partners



Orbital
▲ Seamless brilliance



Balajee
InfraTech & Constructions Pvt. Ltd.

Integrated Power & Energy Solutions Under One Roof

LV / MV Switchboards

Low-Voltage:

- Motor Control Center
- Power Control Center
- Variable Frequency Drive
- Battery Circuit Breakers
- Remote Power Panel

Medium Voltage (Up to 11kV)

- VCB & PCVCB
- Ring Main Units
- Control & Relay Panel
- Automatic Mains Failure
- Distribution Feeder Panels

Battery Energy Storage

Modular 100kW to multi-MW configurations LiFePO₄ & future ready battery chemistries.

Applications include:

- Peak Shaving
- GenSet Replacement
- UPS Backup
- Renewable Storage.

Battery Stable Systems

Li-ion and Na-ion modules for UPS backup Rugged, space-optimized rack designs Compatible with B&B switchboards and telecom infra

Applications Include:

- Critical Backup
- Power Continuity
- Network Reliability
- Compact Deployment

Brick and Byte Products

Rover Racks:

- Floor Mounted IT Racks (18U to 48U)
- Wall Mounted Racks (4U to 15U)
- Open racks
- IoT Smart racks
- Customised racks.

ZenBox Enclosures (JB/DB)

- Available in IP 65/66/67

Outdoor Enclosure Unit (ODU)

- Available in IP 65/66/67

Cooling Solutions

- Cooling Distribution Units
- Rear Door Heat Exchanger

Low & Medium Voltage Distribution Boards

Built for Mission-Critical Loads

We design, manufacture, commission, and maintain electrical switchboards custom-built for Data Centers, Telecom, Defense, Infrastructure, and Industrial Hubs. Certified to IEC standards.

- Siemens SIEPAN8PU
- Modutec TTA - IEC 61349-1-2

01

Low Voltage

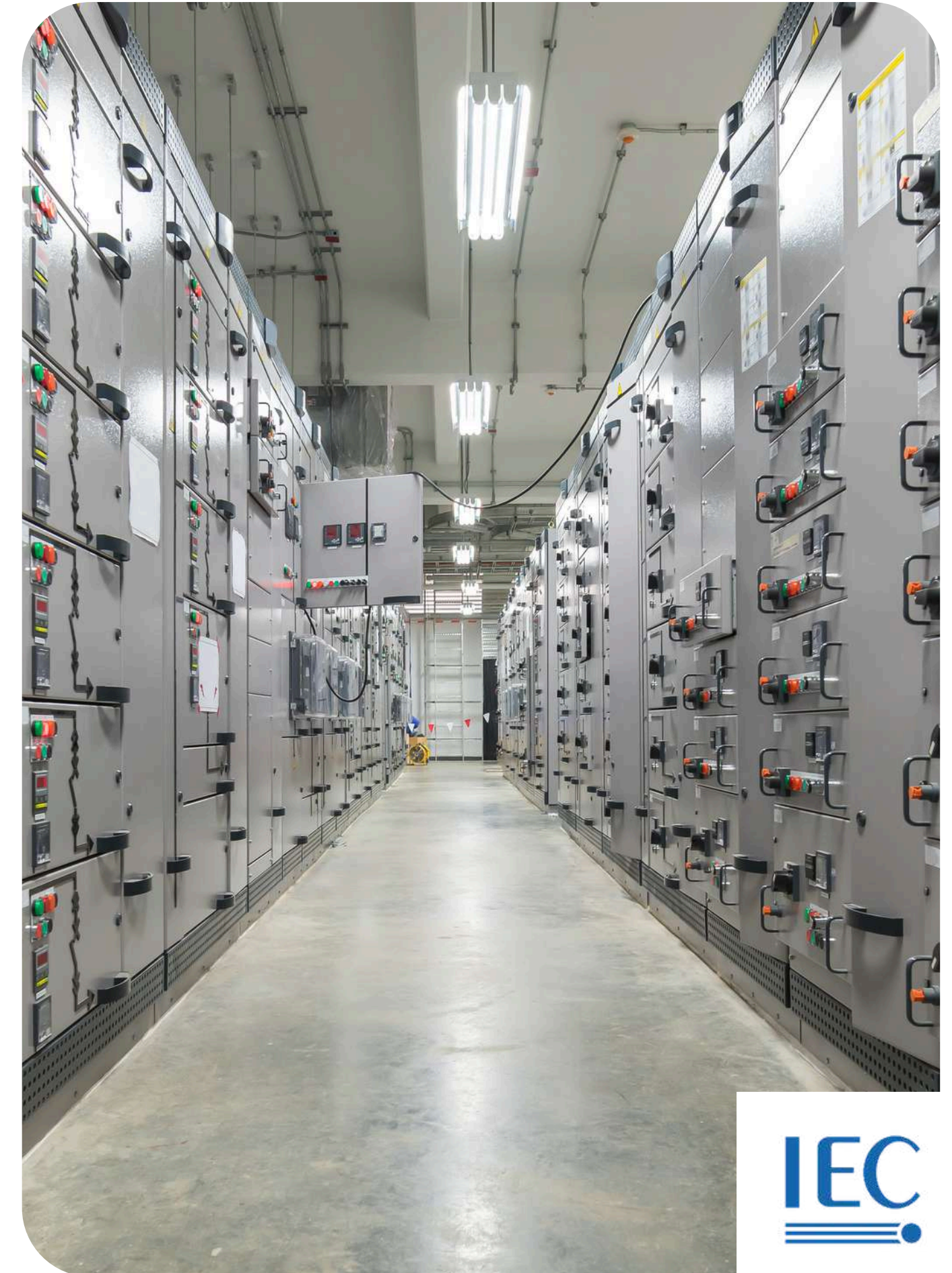
- Motor Control Centers (MCC)
- Power Control Centers (PCC)
- APFC, VFD, Control & Relay
- Remote Power Panels (RPP)
- Battery Circuit Breaker (BCB)
- Power Distribution Unit (PDU)

- Stelmec Medium Voltage Solutions

02

Medium Voltage

- Compact Substations
- VCB & PCVCB
- Ring Main Unit (RMU)
- Capacitor & Harmonic Filter Panels
- Feeder Panels
- Control Relay Panels



Siemens LV TTA - SIEPAN 8PU

Authorized License Partners for SIEPAN8PU

SIEMENS

Licensed
Partner
For
SIEPAN 8PU



Conformance to standards	IEC 61439
Internal Arc Containment	IEC 61641
Seismic withstand	IS 1893
Short circuit withstand (Icw) - main bus	65kA/1sec/143kA peak
Short circuit withstand (Icw) - neutral	39kA/1sec/82kA peak
Short circuit withstand (Icw) - earth	39kA/1sec/82kA peak
Degree of protection (IP)	IP 4x, 5x, x3, x4
Ambient temperature	40°C/45°C/50°C
Temperature rise	As per IEC 61439-2
Seismic conformance test	Zone III & V
Rated insulation voltage	upto 1000V
Rated operational voltage	upto 690V
Rated impulse withstand	8kV
Main busbar rating	upto 5000A
Busbar execution	Interleaved/non-Interleaved
Busbar options	Copper/aluminium
Infeed termination	Cable/bus ways/busduct
Infeed entry	Top/bottom
Form of seperation	upto form 4B

Stelmec Medium Voltage Solutions

Channel Partner for MV - VCCB, PCVCB, CRP, RMU



VACUUM CIRCUIT BREAKER PANELS

- Up to 36kV indoor switchgear solutions
- High short-circuit interrupting capability
- Safe, maintenance-friendly, and long service life
- Suitable for utilities, industries, data centers, and infrastructure projects

POWER CONTROL VCB PANELS

- Integrated control, protection, and switching functions
- Numerical relay-based protection and monitoring
- Reliable feeder, transformer, and motor protection
- Designed for mission-critical power networks



CONTROL & RELAY PANELS

- Protection, control, metering, and annunciation systems
- Numerical relay integration for substations and switchyards
- SCADA, RTU, and automation-ready architecture
- Engineered for transmission, distribution, industrial applications

RING MAIN UNITS

- Compact SF₆ / SF₆-free MV distribution solution
- Enhanced network reliability and operational safety
- Ideal for renewable energy, commercial, utility, and urban distribution networks
- Modular, scalable, and low-maintenance design



TTA - IEC 61439-1&2 Switchboard Enclosures

Authorized Partners for Modutec TTA IEC61439 1&2



Degree of protection	IP 42 / IP 55
Form of Separation	Form 2b / Form 3b / Form 4a & 4b Form 4a type 2 / Form 4b type 6 & 7
Entry of Cables	Top and / or Bottom
Access	Front / Front & Rear / Sides
Standard Colour	Ral 7035 Structure Finish

Frames	2mm Thick ALUZINC
Hinged Doors	2mm Thick CRCA
Bolted Doors	1.6mm Thick CRCA
Gland Plate	1.6mm Thick GI
Mounting Plate	2mm Thick Aluzinc
Side Cover	1.6mm Thick CRCA
Plinth	3mm Thick CRCA
Enclosure Color	RAL 7035/7032
Degree Of Protection	INDOOR, IP 43/54
Form Of Separation	FORM 1
Electro-Magnetic Compatibility	Yes



Tested to Global Standards



MODUTEC IEC 61439 CERTIFICATES LIST							
S NO.	SWITCHGEAR MAKE	RATING	CERTIFICATION	TESTING LOBORATORY	SHORT CIRCUIT	BUSBAR MATERIAL	IP
1	SIEMENS	2500A	ASTA	ERDA	50KA/3SEC	COPPER	4X
2	SIEMENS	1600A	ASTA	ERDA	50KA/3SEC	COPPER	4X
3	EATON	4000A	ERDA	ERDA	65KA/1SEC	COPPER	4X
4	mitsubishi	5000A	ASTA	ERDA	65KA/1SEC	ALUMINIUM	4X
5	LS ELECTRIC	4000A	ASTA	PT&T -KOREA	65KA/1SEC	ALUMINIUM	43
6	LS ELECTRIC	2500A	ASTA	PT&T -KOREA	65KA/1SEC	ALUMINIUM	43
7	LS ELECTRIC	1600A	ASTA	PT&T -KOREA	65KA/1SEC	ALUMINIUM	43
8	SCHNEIDER	2500A	ASTA	ERDA	50KA/3SEC	COPPER	54
9	ABB	4000A	ASTA	CPRI & ERDA	65KA/1SEC	ALUMINIUM	43
10	LS ELECTRIC	4000A	DEKRA	PT&T -KOREA & DEKRA LAB DUBAI	65KA/3SEC	COPPER	55
11	LS ELECTRIC	2500A	DEKRA	PT&T -KOREA & DEKRA LAB DUBAI	50KA/3SEC	COPPER	55
12	LS ELECTRIC	1600A	DEKRA	PT&T -KOREA & DEKRA LAB DUBAI	50KA/1SEC	COPPER	55

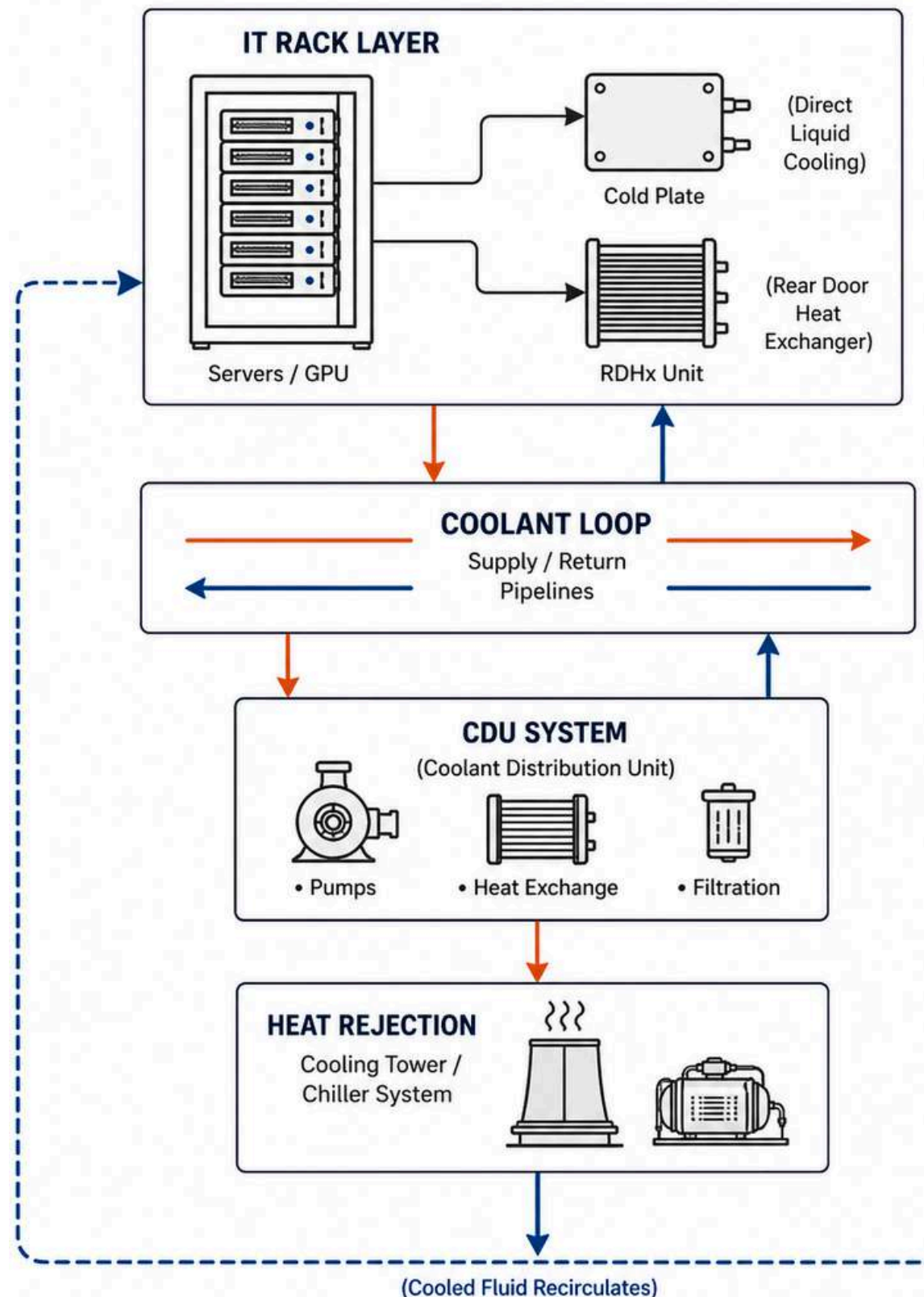
Type Tested with



- Modutec enclosures are extensively tested and verified to IEC 61439-1-2, Edition 3 standards for low voltage switchboards.
- All major brands of breakers, just fit perfectly into the Modutec modular switchboard enclosure system.
- It results from 35 years of innovative thinking, R&D and continuous testing at recognized test labs to global standards.

Data Center Cooling

Liquid Cooling Ecosystem for High-Density Infrastructure



COOLING TECHNOLOGIES

- RDHx (Air-to-Liquid)
- Direct Liquid Cooling (DLC)
- Immersion Cooling (Future Ready)

CERTIFICATIONS & IP

- Patented Technology
- CE Approved
- UL Certification (In Process)

INTELLIGENT CONTROL LAYER

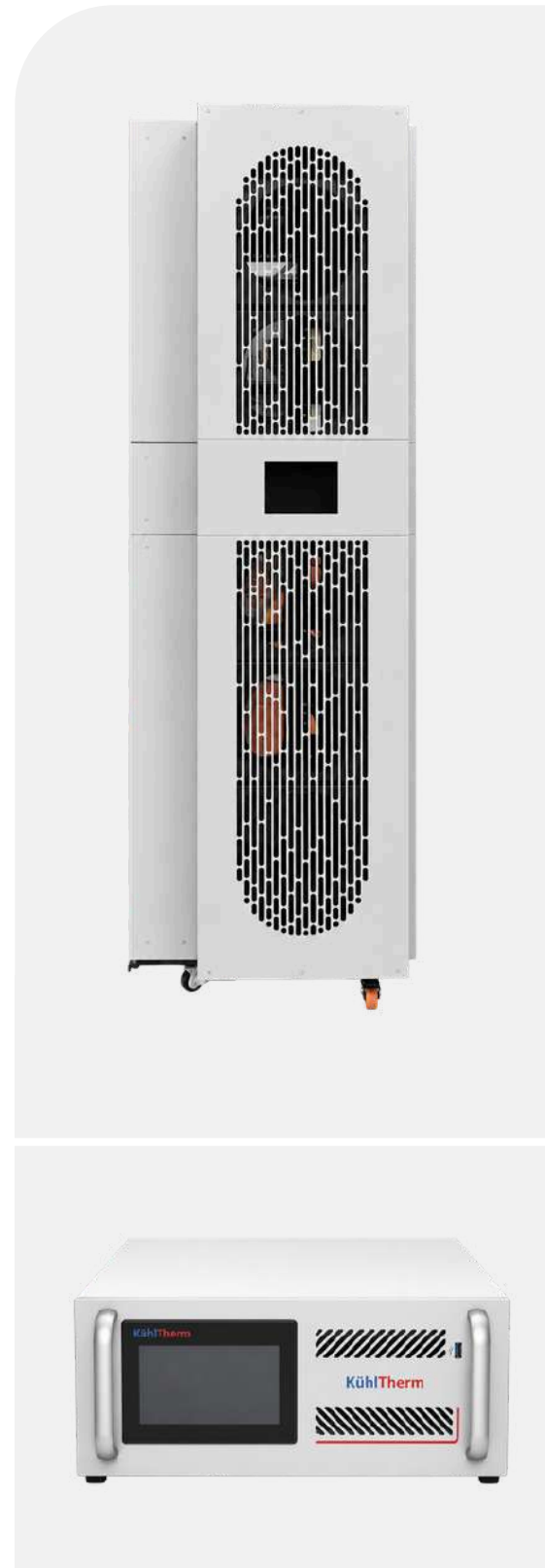
- Real-time Monitoring
- Predictive Diagnostics
- Fault Detection
- DCIM / BMS Integration

KEY PERFORMANCE

- Up to 1 MW scalable CDU
- 40–90 kW per rack cooling
- Optimized for AI / HPC workloads
- Significant PUE reduction

INTEGRATED COOLING + ELECTRICAL ECOSYSTEM

- Seamless integration with LV/MV systems
- Designed alongside switchboards & power infra
- Single partner for power + thermal architecture



Ex-Proof / Flameproof Products

Control Panels



Distribution Board



Junction Box & Enclosures



Hooter



Rotary Switch



Ex-Proof / Flameproof Certifications



GUIDE TO HAZARDOUS LOCATIONS Explosive Gas & Dust Atmospheres



Ignition Protection Concepts for Electrical Equipments							
Explosive Atmosphere		Relevant Code		Protection Concept	EPL & Suitable for use in Zone		
Gas	Dust	Gas	Dust		Gas	Dust	
		IS/IEC60079-0		General Requirements			
Ex da	X	IS/IEC60079-1	X	Flameproof	Ga (0, 1, 2)	X	
Ex db					Gb (1, 2)		
Ex dc					Gc (2)		
Ex pxb Ex pyb Ex pzc		IEC60079-2		Purge Protected	Gb (1, 2)	Db (21, 22)	
			Gb (1, 2)		Db (21, 22)		
			Gc (2)		Dc (22)		
Ex q	X	IS/IEC60079-5	X	Powder Filled	Gb (1, 2)	X	
Ex ob	X	IS/IEC60079-6	X	Oil Immersed	Gb (1, 2)	X	
Ex oc					Gc (2)		
Ex eb Ex ec	X	IS/IEC60079-7	X	Increased Safety	Gb (1, 2)	X	
					Gc (2)		
Ex ia Ex ib Ex ic		IS/IEC60079-11		Intrinsically Safe	Ga (0, 1, 2)	Da (20,21,22)	
			Gb (1, 2)		Db (21, 22)		
			Gc (2)		Dc (22)		
Ex nC	X	IS/IEC60079-15	X	Sealed / non-incendive	Gc (2)	X	
Ex nR				Restricted Breathing	Gc (2)		
Ex ma	IS/IEC60079-18				Encapsulation	Ga (0, 1, 2)	Da (20,21,22)
Ex mb						Gb (1, 2)	Db (21, 22)
Ex mc						Gc (2)	Dc (22)
Ex op is	IS/IEC60079-28				Optical radiation protected	Ga (0, 1, 2)	Da (20,21,22)
Ex op pr						Gb (1, 2)	Db (21, 22)
Ex op sh						Gc (2)	Dc (22)
X	Ex ta Ex tb Ex tc	X	IS/IEC60079-31	Dust Ignition Protected	X	Da (20,21,22)	
						Db (21,22)	
						Dc (22)	
Ex sa	IEC60079-33				Special protection 's'	Ga (0, 1, 2)	Da (20,21,22)
Ex sb						Gb (1, 2)	Db (21, 22)
Ex sc						Gc (2)	Dc (22)

Temperature Class

T Class	Maximum Surface Temperature
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

Equipment Protection Level

Symbol	Suitable For Zone
Ga	0
Gb	1
Gc	2
Da	20
Db	21
Dc	22
Ma	Energized
Mb	De-Energized*

G=Gas, D=Dust, M=Mining
*in presence of explosive atmosphere

Ingress Protection (IP)

Hazardous area equipment generally requires IP rating of IP54 to IP66. Higher rating is not recommended.

DUST :
IP 5x - Dust Protected
IP 6x - Dust Tight
WATER :
Protected Against
IP x4 - Splashing Water
IP x5 - Water Jets
IP x6 - Powered Water Jets
IP x7 - Temporary Immersion
IP x8 - Continuous Immersion

See IEC/EN/IS60529 for full definition of IP ratings.

NEMA v/s IP Enclosure

NEMA Type	3,3S & 13	4 & 4X	6 & 6P
Equivalent IP	IP 54	IP 56	IP 67

Area Classification

Gas	Dust	Hazardous Area
Zone 0	Zone 20	Frequently Present
Zone 1	Zone 21	Present in Normal Condition
Zone 2	Zone 22	Present in Abnormal Condition

Brick and Byte Innovative Products Limited
A-417, TTC Industrial Estate, Mahape MIDC, Thane
Belapur Road, Mahape , Navi Mumbai , INDIA - 400710

E-mail: sales@brickandbyte.in
Cell: +91 90048 56351

Gas Group

Gas Group	Representative Gas
I	Methane (Mining only)
IIA	Propane
IIB	Ethylene
IIC	Hydrogen

Gases are classified according to Ignitability of gas-air mixture. Refer IS/ISO/IEC 80079-20-1.

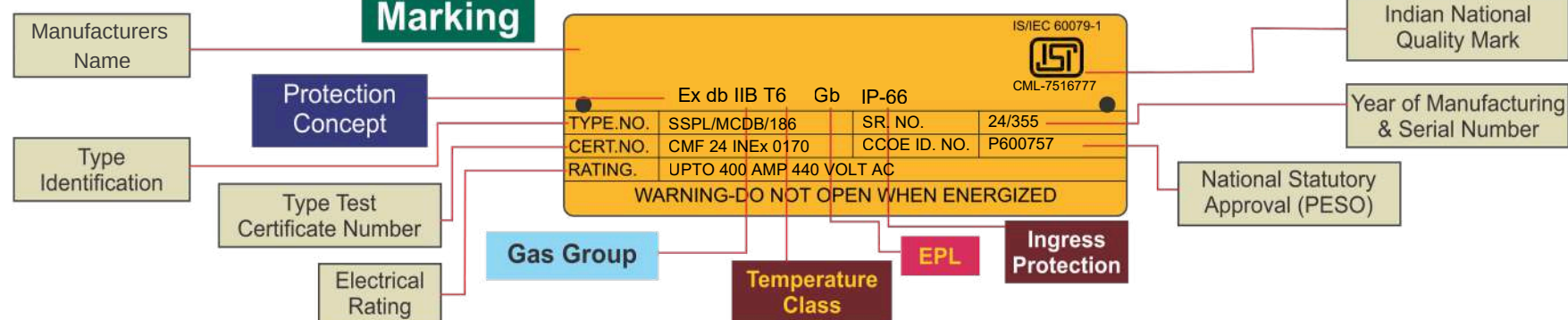
Dust Group

Dust Group	Type of Combustible Dust
IIIA	Combustible Flying
IIIB	Non-conductive Dust
IIIC	Conductive Dust

Code for Users

Subject	Gas	Dust
Flammable Data	IS/ISO/IEC 80079-20-1	IS/ISO/IEC 80079-20-2
Area Classification	IS5572	IEC 60079-10-2
Selection & Installation	IS16724/IEC 60079-14	
Inspection & Maintenance	IS/IEC 60079-17	
Repair & Overhaul	IS/IEC 60079-19	

Marking



Battery Energy Storage System (BESS)

EMS - in-built solution compliant with IEC 62443

Capacity Range

- 100kW to multi-MW modular configurations

Battery Chemistry

- Lithium Iron Phosphate (LiFePO₄) and future-ready

Applications

- Peak Shaving
- GenSet Replacement
- UPS Backup
- Renewable Storage.

Features

- Smart monitoring
- Smart switching
- Energy optimization

Integration

- Compatible with Brick and Byte switchboards and solar DC



Battery Stable System (BSS)

Backup you can count on

Capacity Range

- Modular rack-based configurations (scalable as per backup requirement)

Battery Chemistry

- Li-ion / Sodium-ion and VRLA compatible

Applications

- UPS Backup
- Data Centers
- Telecom Infrastructure
- Defense Systems

Features

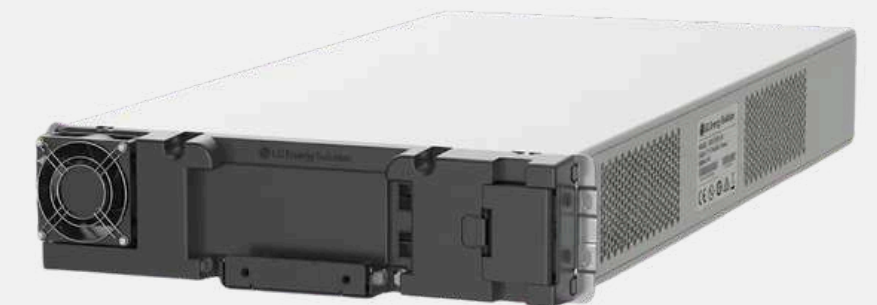
- High-reliability backup solution
- Space-optimized rack design
- Long lifecycle & low maintenance
- Suitable for harsh environments

Integration

- Compatible with Brick and Byte switchboards and telecom infrastructure



Rack



LiOn / NaOn Module

Brick and Byte Products

Rover Racks



**Floor Mounted IT Rack
(18U to 48U)**



Open Racks

LV / MV Systems



Battery Circuit Breaker



Remote Power Panel

ZenBox



**ZenBox SS & MS
(IP 65/66/67)**



IoT Enabled Smart Rack



**Wall Mounted Rack
(4U to 15U)**



Power Distribution Unit



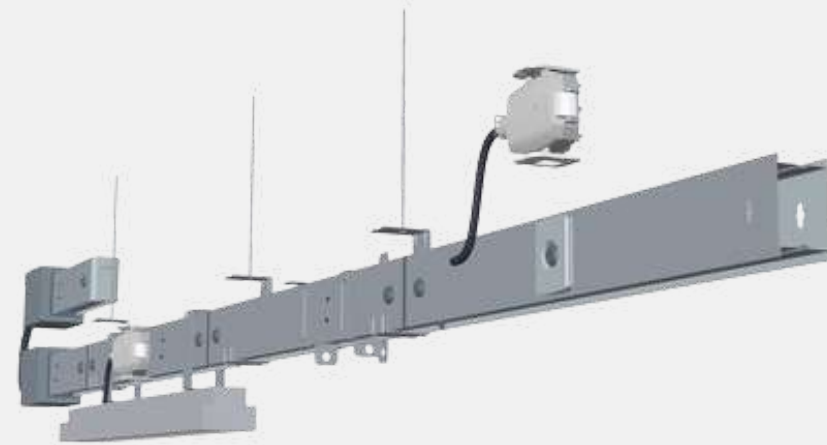
ACDB/DCDB

ODU



**Outdoor Enclosure Unit
(IP 65/66/67)**

Distributed Products



Busway

COSPOWERS



Energy Cabinet



C&I Battery System

APAR



Low Tension Cable



Busduct



Portable Supply



LiOn Battery



High Tension Cable

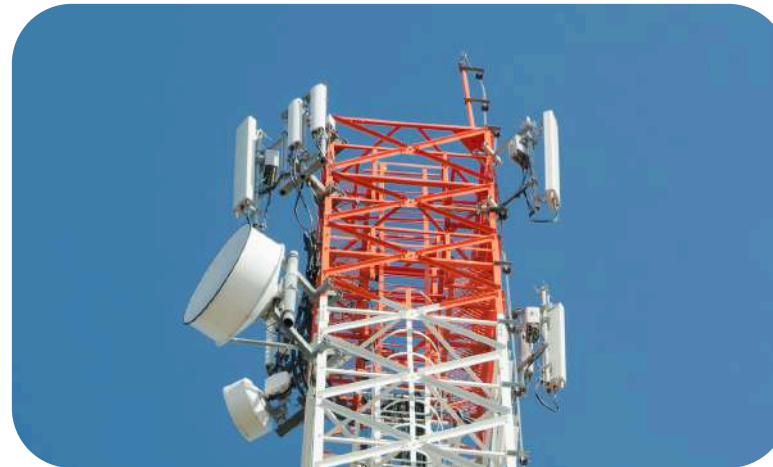
Industries We Serve

Data Center



Hyperscale, colocation, and edge facilities requiring mission-critical power reliability

Telecom



High-availability infrastructure for 5G, fiber, and network backbone deployments

Renewable Energy



BESS integration, solar DC coupling, and grid stabilization systems

Commercial & OEMs



Custom switchboards & power solutions for builders & original equipment manufacturers

Defence & Industrial



Flameproof, Ex-rated, and ruggedized systems for critical environments

Utilities & Energy



Distribution, substation, and grid modernization projects

Why Brick and Byte?

QUALITY

IEC 61439 type-tested switchboards

ISO 9001, 14001, 45001, IATF 16949 certified

Precision-engineered with rigorous quality checks

SPEED

Brand-neutral positioning = faster delivery

400 tons/month manufacturing capacity

Strong partner credit lines for procurement agility

CUSTOMIZATION

In-house design + rapid prototyping

Panel sizes from LV to 11 kV

Application-specific designs tailored to client requirements

COMPLIANCE

ATEX, IECEx, PESO Flameproof certifications

IP66/67 rated products

Type-tested with 6 majorswitchgear OEMs

State-of-the-Art Manufacturing Infrastructure

50,000+

Sq.Ft. Workshop

400T

Monthly Capacity

11-Stage

Pre - Treatment Line

Equipment

1× HSG 6kW Fiber Laser

1× ALS 3kW Laser

2× FinnPower C6 Turret Punches

1× Amada 2610NT Turret Punch

8× Amada Pressbrakes (30–130T)

Amada RG35 4-Axis Press Brake

MIG & TIG Welding Stations (200-400 amp)

Pre-Treatment & Powder Coating Plant

Overhead Continuous Conveyor System

Electrostatic Spray Booth (4m × 3m)

Curing Oven (200–220°C)

Busbar Combo Machine (10x120 mm)

Busbar Fabrication (tin, sliver, epoxy coating)

DeWalt, Bosch, Black + Decker - Driver/Drill/Heat guns



The Brick and Byte advantage

We extend our relationship beyond the sale.

01

Pre-Sales Support

Comprehensive technical consultation, system design, and engineering support to meet your specific project requirements from day one.

02

Post-Sales Support

Ensuring smooth installation, commissioning, training, and warranty coverage. Our team is on-site when you need us.

03

Annual Maintenance Contract

Regular cleaning, servicing, testing, and 24/7 emergency support to ensure maximum uptime and system reliability.

04

Upgrades & Retrofit Solutions

We modernize existing electrical systems with minimal disruption — extending asset life and improving performance.

Certified to Global Standards

Quality management and product certifications that matter.

QMS Certifications



IATF 16949:2016



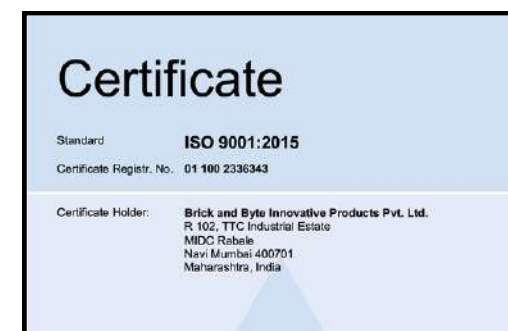
ISO 45001:2018



ISO 14001:2015



ISO 9001:2015



Product Certifications



IEC 61439 - 1- 2

Type-tested with 6 major switchgear makes: ABB, Siemens, Schneider, Eaton, LS Electric, and Mitsubishi



IP 66/67

Product rating that indicates a product is sealed to protect against dust and water



IP 67

Tested product is "waterproof" and can withstand dust and water



ATEX / IECEx

Hazardous location and flameproof certifications

Trusted By

20+ marquee clients across data centers, defense, renewables, utilities, and manufacturing—including:





Our Contact

Let's power your next project with precision and reliability. Connect with us to explore tailored electrical solutions, discuss your requirements, or request a quick consultation—our team is ready to support you at every step.



Contact Us

Telephone :

+91 90048 56351

Email :

sales@brickandbyte.in

Website :

www.brickandbyte.in

Address:

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Maharashtra, India - 400710