



# BRITE ENGINEERING



**B** BRITE  
ENGINEERING



No 5, 8 & 9 M E S Road, 2nd Main, Sharadamba Nagar,  
Jalahalli Industrial Area, Bangalore - 560013.



sales@briteengineering.net    tender@briteengineering.net



+91 99000 36725, 95388 43377



www.briteengineering.net

**About Us:**

Brite Engineering Control Switchgears (P) Ltd., is an ISO 9001-2015 Accredited for Design Manufacturing services & supply of Control Panels. Located in Jalahalli Industrial Area, Bangalore, we are one of the leading Manufacturers & suppliers of HT & LT Panel Boards. Founded in the year 1995 by Mr. V. C. Swamy who earlier served in the public sector & with vast experiences, we have consistently serviced the electrical needs for our customers & our loyal clientele in the industrial, commercial & Residential segments. Our Projects stand testimonials to the fact that Brite engineering deliver's Quality Products & Quality Solutions. The company currently employs close to 150 people with three production plants all located in a convenient vicinity of Bangalore thereby enabling us in speedy expedition of all works.

**Infrastructure:**

Our current facility is spread across 46000Sq.ft in size in unit 1 and unit 2

- Machine Shop
- Fabrication Shop
- Assembly Shop
- Testing area
- Powder coating shop
- Designing
- Administration
- Stores
- Dispatch section

**Our Mission:**

To be able to provide our customer with the utmost satisfaction & achieve consistent technical excellence in our day to day endeavours.

**Our Vision:**

To add economic value to our clients businesses and to incorporate high quality standards in our products & services.

**Objective:**

To meet our day to day challenges in an absolutely professional manner and also be fully committed towards satisfying of all our customers by working closely with them.

**Values:**

People are the very essence of our business, The respect, responsibility care & concern consistently invested in all our people is the means by which we believe that true success, happiness & peace of mind comes by living in harmony with our environment & nurturing a relation-ship of interdependence & living in this awareness.

**Skills:**

One of the major assets at BECSPL is the availability of highly dedicated work force teams with good technical expertise and specialized skills sets in the fields of design, Manufacture, testing etc. with larger emphasis on quality.

**Solution:** Customized solution for Wind power and Solar

**Products:** Packaged substation/ unitized substation ( PSS/USS)

**Segments:** Wind, Solar, Water, Sugar, Defences etc.

Infra, Building, Hospitals, Industries, Pharma.

**Market:** National & International Market

**Approvals:** ISRO, CPRI, KPTCL, All ESCOMs,

## List of Machinery & Equipment:

### Cutting Equipments:

- Hydraulic Shearing Machine(2500mm,100 tones Capacity)
- Cut half Machines
- Jigsaw Machines
- Power Press break

### Bending Equipments:

- Hydraulic Bending Machine( 2500mm ,100 tones Capacity)
- Hydraulic Press(40 tones Capacity)
- Manual Fly Press
- Bus Bar Bending Machine

### Welding Equipments:

- Arc Welding Machines
- CO2 welding Machines
- Spot welding Machine

### Drilling Equipments:

- Radial Drilling Machines
- Hand Drilling Machines

### Grinding Equipments:

- Bench grinder
- Grinding Machine portable
- Sand ring Machine portable

### Testing Equipment:

- HV Tester 100KV for HT Panel
- AC/DC Testing Panels 0-230V
- HV Test Kit - Upto 75kV
- Megger
- Digital Multi Meter
- Phase sequence Indicator
- Digital Tong Tester
- Thickness measuring Gauge
- Primary Current Injection Kit -1
- Secondary Current Injection Kit -1
- Breaker CRM Kit

### Others:-

- Electrical Crane with 5 Ton Capacity
- Hydraulic Trolley with 2 Ton Capacity
- Compressor
- Blower
- Weighing Scale



## Product portfolio

### Our Offerings:

Low Voltage Products	Medium Voltage Products
<p><b>Rating: Up to 415V, 50Hz 6300A</b>  <b>Design: Single Front / Double Front</b>  <b>Type: Fixed / Draw-out Type</b>  <b>Form: Up to Form-4B</b>  <b>IP: IP-54</b>  <b>SC Rating: Up to 100kA</b></p>	<p><b>Voltage: 3.3kV to 33kV</b>  <b>Current: 2000A</b>  <b>STC: 31.5kA</b>  <b>IP: IP-65</b>  <b>Power: 500 MVA</b></p>
<ul style="list-style-type: none"> <li>• PCC Panels</li> <li>• Power Distribution Boards</li> <li>• MCC Panels</li> <li>• A P F C Panels</li> <li>• Lighting Distribution Panels</li> <li>• Variable Frequency Drive Panels</li> <li>• Soft Starter Panels</li> <li>• LT Metering Panels</li> <li>• DG Synch &amp; AMF Panels -LT, HT</li> <li>• Control &amp; Relay Panels</li> <li>• Distribution Boards</li> <li>• Feeder Pillars</li> </ul>	<ul style="list-style-type: none"> <li>• VCB Panel from 3.3kv to 33kv</li> <li>• HV Capacitor Panels</li> <li>• LBS Panels</li> <li>• Lighting Arrester Panels</li> <li>• Change Over Panels</li> <li>• Neutral Grounding Resistor Panels</li> <li>• HT Synchronizing Panels</li> <li>• Relay and Metering Panels</li> <li>• Mimic Panels</li> <li>• PLC / SCADA Automation Panels</li> <li>• Compact Secondary Substations</li> <li>• 11 &amp; 33kV Ring Main Units</li> </ul>

## Medium Voltage Products

SAFE gear\* is wide range of medium voltage switchgear designs, which give versatile and cost effective solutions for generation, distribution and any other application at the consumer level.



## Salient Features For MV Switchgear Type

Indoor Type	Outdoor KIOSK Type
<ol style="list-style-type: none"> <li>1. Metal clad construction-all segregated compartments.</li> <li>2. Independent exhaust vents for all HT compartments.</li> <li>3. IP4X degree of protection externally and IP2X between compartments.</li> <li>4. Modular Construction for expend ability.</li> <li>5. Type tested for BIL and Short circuit as per 62271/1200/2003.</li> <li>6. Rodent Proof.</li> <li>7. Maintenance friendly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Kiosk Type construction with double door in the front.</li> <li>2. Rear door has both hinged and bolted options for safety.</li> <li>3. Adequate slope given on top roof to drain water dust and particles.</li> <li>4. Robust weather and dust proof-IP5X degree of protection externally and 2X between compartments.</li> <li>5. Fully welded construction.</li> <li>6. Type tested for BIL and Short circuit as per 62271/1200/2003.</li> <li>7. Rodent Proof.</li> <li>8. Maintenance friendly.</li> </ol>



### 3.3KV to 33KV HT VCB Panel

The VCB Panel/Switchboard are optimized design for Indian local electricity supply condition & ambient. The switchboard is of compact design, sturdy construction & simple in operation with a proven motorized spring operated mechanism. The switchboard is constructed by placing standardized fabricated cubicle. The Switchboard is fully compartmentalized & extensible on both side, each cubicle is subdivided internally into the following compartments which are segregated from each other with provision for internal wiring.

- Metering Box
- Breaker Compartment
- Cable Compartment
- Busbar Compartment
- PT Compartment

The Switch board is completely cabled in the factory, installation on site only requires the external power & auxiliary connections .All normal operations are carried out from the switch board front with closed doors, only maintenance & replacement operations require the opening of doors on the front & Back.

### Technical specifications –3.3kV to 11 KV Cubicle (We are authorised MV Integrate of ABB)



Description	Indoor(VMAX/VD4)	Outdoor (VMAX.VD4)
Rated Voltage (kV)	3.3-12 kV	3.3-12 kV
Basic Insulation level (kVrms/kVp)	28/75	28/75
Rated Frequency (Hz)	50	50
Rated Busbar current (A)	Upto 2000A	Up to 2000A
Short time current rating (1 or 3 Sec) (kA)	31.3	31.3
Width x Depth x Height (mm)	700 x 1550 x 2100	800 x 1550 x 2200
Degree of protection	IP4X	IP5X
Weight with Circuit Breaker (Approx) (Kg)	900	1000

### Technical Specifications - 22kV to 33kV Cubicle

Description	Indoor	Outdoor
Rated Voltage (kV)	33 kV	13kV
Basic Insulation level (kVrms/kVp)	70/170	70/170
Rated Frequency (Hz)	50	50
Rated Busbar current (A)	As requested	As requested
Short time current rating (1 or 3 Sec) (kA)	31.5	31.5
Width x Depth x Height (mm)	1200 x 2500 x 2400	1200 x 2550 x 2500
Degree of protection	IP4X	IP5X
Weight with Circuit Breaker (Approx) (Kg)	>1700	>1900

### 415 V Low Voltage Panels

#### Power Control Centers (PCC)

Power Control Centres housing either only circuit breaker panels or coupled together with Motor Control panels are designed taking into account the functional requirement and ease of access for maintenance. Each panel is provided with segregated compartments for control bus chamber, control/metering chamber and breaker chamber.

#### Salient Features for LV Panels

- Compartmentalized structure.
- Sleeved bus bar
- Cable entry from top and bottom
- Modular Construction for expendability.
- Type tested for BIL and Short circuit as per 62271/1200/2003.
- Rodent Proof.
- Maintenance friendly.



## Motor Control Centres (MCC)

For housing switch gears for motors of different capacity, squirrel cage or slip ring type with direct on line or reduced voltage starting through auto-transformers. The panels are provided with standard protection devices as per IS requirement. In addition, winding/ bearing temperature control relays, phase sequence protection, under/over voltage relays or any other protection suitable for use with thermistor /RTDs are offered as optional extra.



## Relay & Logic Control Panels

Diesel generator control panels for single or parallel operation, Automatic main failure (AMF) Panels, Remote Tap Changing Control (RTCC) panels etc. and power factor correction control panels up to 800 KVAR in steps suitable KVAR banks. In indoor type panels, Control elements like switch fuse units / MCCB's, contractor etc. are housed in totally enclosed segregated compartments with hinged doors located at the back, isolated from feeder compartment. Liberal ventilation to the capacitors is ensured by fixing mesh on all three sides. Accommodating capacitors within the panels not only saves external cabling but also makes the installation neat and compact.

## Salient Features for Relay Control Panel

- For voltage level 11 kv to 66KV.
- Numerical / Static relay as per customer specification.

## Construction of Panels

LT panels are manufactured for 415V, 4wire, 3ph, 50Hz. AC supply and current carrying capacity up to 2500A. These are compact, totally enclosed, CRCA sheet steel clad, floor mounting, free standing, hinged doors for feeder compartments for ease of operation and bolted covers for bus chambers. To provide operator safety the compartments of the panels are segregated. Folded sheet steel construction is employed which lends adequate mechanical strength & dimensional stability. The panels are provided with gaskets for doors and covers to make the panels dust and vermin proof. The panels are extensible on either side. Separate earth bus is provided.

Air insulated EC grade copper / Aluminum bus bars are designed for temperature up to 85 deg. C. Heat shrinkable PVC sleeve is provided DMC/SMC insulators are used to maintain excellent non-hygroscopic Characteristics.

Cable chambers are suitable for either from top or bottom. The depth of the panel is chosen to suit the cabling requirement. For single core cables non-magnetic gland plates are provided. Control terminal blocks, suitably located away from power circuit terminators, facilitate easy connection and access of control cables.

The panel boards are available in draw out design. Sheet metal partition /FRP barrier is provided between the bus bar and tray. Outgoing power contacts are mounted within the compartment to avoid accidental contact from the cable chamber. In case of draw out MCC's , the components of a feeder are mounted on a with draw able tray. The tray is provided with guides, low friction sliding devices, simple insertion and with drawl device which locks the tray in fully inserted position. For safety, a spring –loaded scraping earth is provided on each tray having connection to the main earth bus.

All the switch boards and control panels undergo an elaborate pre-treatment which includes degreasing, de-rusting and phosphating. Exterior and interior of the panels are finished with final coat with light / dark Grey or any other shade to customer's choice. Special epoxy paints for installations laden with corrosive chemicals, powder coated finish is offered as optional extra. All panels and bus ducts are manufactured as per IS 8623.



### **DG Synchronizing Panel**

We offer DG Synchronizing Panels which are based on Auto / manual sharing, Auto Synchronising, Auto KW & KVAR sharing and Load dependent start / stop features. Changing of schemes are made through PLC & software which work in tandem with the Generator Control Package Relay that also takes care of power monitoring, communication, display as well as protection. For any type of load addition or reduction, manual intervention with respect to DG Set operation is not required. However, in case of emergency, manual override is possible. Special programs using Real Time Clock (RTC) are possible. With this facility, along with KW dependent programs; day, date and time dependent programmers are possible. Because of KW dependent load sharing, optimum utilization of DG sets are possible. This increases DG sets efficiency and saves lot of fuel. DG Sets are always tried to run with about 80% load factor, where we get maximum efficiency of DG Sets. Load dependent start and stop facility can also be incorporated in the logic in order to further save fuel costs and wear & tear of the DG sets. Unequal sizes of DG sets can also be synchronised with special relays and PLC logic. Multiple DG sets can be synchronised and at Brite engineering, we have done up to 11 DG Sets.



### **PLC Panels**

We offer to our clients a range of intelligent, flexible, powerful, expandable and effectively programmable logic relays with expandable inputs and outputs. These programmable logic relays have the capability of analogue inputs, high speed counters and communication options.

### **SCADA Systems**

Our range of SCADA systems are user friendly, robust and comprehensive in the display of Power parameters, graphs, single line diagrams, history, trends, data, help menu for the Control Panel operation, and remote start stop facility as called for by the application. We can provide

- 75 tags to unlimited tags, development & runtime package
- Web version package for 2 users to unlimited users
- Supports system redundancy & client server architecture
- Connectivity to RDBMS
- Open system architecture
- Tag database compatibility with various application software like MS excel & word



### Compact Secondary Substation (CSS):

CSS typically replace conventional pole mounted transformers. Used in Residential Complexes / Apartments. Commercial Buildings. Industries. Power Distribution. Hospitals. Software Parks. Development Projects. Construction Sites. Solar Power Generation.

**Compact Substation** essentially consists of an assembly of the following on common base.

- **H.V Compartment** - M.V Switchgear: RMU / LBS / VCB with metering & protection.
- **Transformer compartment** – Transformer: Oil / Dry type Up to 2500KVA, up to 33kV, with OCTC / OLTC.
- **L.V compartment** - L.T Switchgear / Panels with ACB / MCCB / SFU with metering & protections or Complete LT panel with multiple feeders & Capacitor Banks.

### Features

- High level of safety for equipment and personnel
- All equipment inside the CSS is type tested
- Footprint engineered to meet required clearance standards
- Steel housing
- Can be lifted with transformer installed
- Engineered for smooth air flow and natural cooling
- Locking system for all doors to prevent un-authorized entry of personnel
- Stainless steel hinges for corrosion resistance
- No access to live parts



List of Customers



# Test Report Certificates

**CENTRAL POWER RESEARCH INSTITUTE**  
**CPRI**

**TEST REPORT**

Test Report Number : CPRI/RLSCLMISC22T0208 Date: 28 April 2022

Name and Address of the Customer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Name and Address of the Manufacturer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Particulars of sample tested : 415V, 1600A LT panel  
Type : Indoor  
Description of test sample : Refer Sheet 2 of 7  
Serial Number : BECSPL-LTAC-2022-B  
Number of samples tested : One  
Date(s) of Test(s) : 2 March 2022  
CPRI Sample code No(s) : SCLMISC22S0188  
Particulars of tests conducted : Verification of temperature-rise

Test in accordance with Standard/Specification : Customer's instruction

Sampling Plan : Not applicable

Customer's Requirement Deviations if any : Refer Sheet 5 of 7

Name of the witnessing persons : Mr. Pradhap, R  
Customers representative : Mr. Pradhap, R

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words) : None  
Number of Sheet(s) : Seven  
Number of Oscillogram(s) : Nil  
Number of Graph(s) : Nil  
Number of Photograph(s) : Two  
Number of Test Circuit Diagram(s) : Nil  
Number of Drawing(s) : Four

(Rakesh K. G)  
Test Engineer

(Sward Kumar Das)  
Head of Division  
Reviewed and Authorized by

SHORT CIRCUIT LABORATORY  
P.B.NO.8086, SADASHIVNAGAR, P.O.  
PROF. SRI C.V. RAMAN ROAD, BANGALORE - 560 080, INDIA  
Tel: +91 (0) 80 2207 2353

Sheet 1 of 7

**CENTRAL POWER RESEARCH INSTITUTE**  
**(Member of STL)**  
**CPRI**

**TEST REPORT**

Test Report Number : CPRI/RLSCLMISC22T0195 Date: 12 April 2022

Name and Address of the Customer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Name and Address of the Manufacturer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Particulars of sample tested : 110V 250A DC DB (Distribution Board) Panel  
Type : Indoor  
Description of the sample : Refer Sheet 2 of 7  
Serial Number : BECSPL-DCDB-2022-C  
Number of samples tested : One  
Date (s) of Test (s) : 09 March 2022  
CPRI sample code no(s) : SCLMISC22S0167  
Particulars of tests conducted : Short-time withstand current

Test in accordance with Standard / specification : Customer's instruction

Sampling Plan : Not applicable

Customer's requirement Deviations if any : 25 KA DC for 1.0 s on main bus-bars

Name of the witnessing persons : Mr. Pradhap, R, Design Engineer  
Customers representative : None

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words) : None  
Number of Sheet(s) : Seven  
Number of Oscillogram(s) : One  
Number of Graph(s) : Nil  
Number of Photo(s) : Two  
Number of Test Circuit Diagram(s) : One  
Number of Drawing(s) : Three

(Sardul P)  
Test Engineer

(Sward Kumar Das)  
Head of Division  
Reviewed and Authorized by

SHORT CIRCUIT LABORATORY  
P.B.NO.8086, SADASHIVNAGAR POST OFFICE  
SRI C.V. RAMAN ROAD, BANGALURU - 560 080 (INDIA)  
Phone: +91 (0) 80 - 22072353 Fax: +91 (0) 80 - 22061213

Sheet 1 of 7

**CENTRAL POWER RESEARCH INSTITUTE**  
**CPRI**

**TEST REPORT**

Test Report Number : CPRI/RLSCLMISC22T0165 Date: 26 April 2022

Name and Address of the Customer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Name and Address of the Manufacturer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Particulars of sample tested : 415V, 400A ACDB  
Type : Outdoor  
Description of test sample : Refer Sheet 2 of 7  
Serial Number : BECSPL-ACDB-2022-A  
Number of samples tested : One  
Date(s) of Test(s) : 21 February 2022  
CPRI Sample code No(s) : SCLMISC22S0161  
Particulars of tests conducted : Verification of temperature-rise

Test in accordance with Standard/Specification : Customer's instruction

Sampling Plan : Not applicable

Customer's Requirement Deviations if any : Refer Sheet 5 of 7

Name of the witnessing persons : Mr. Pradhap, R  
Customers representative : Mr. Pradhap, R

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words) : None  
Number of Sheet(s) : Seven  
Number of Oscillogram(s) : Nil  
Number of Graph(s) : Nil  
Number of Photograph(s) : Two  
Number of Test Circuit Diagram(s) : Nil  
Number of Drawing(s) : Five

(Rakesh K. G)  
Test Engineer

(Sward Kumar Das)  
Head of Division  
Reviewed and Authorized by

SHORT CIRCUIT LABORATORY  
P.B.NO.8086, SADASHIVNAGAR, P.O.  
PROF. SRI C.V. RAMAN ROAD, BANGALORE - 560 080, INDIA  
Tel: +91 (0) 80 2207 2353

Sheet 1 of 7

**CENTRAL POWER RESEARCH INSTITUTE**  
**CPRI**

**TEST REPORT**

Test Report Number : CPRI/RLSCLTAD22T0091 Date: 28 February 2022

Name and Address of the Customer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Sharadamba Nagar, Jalahalli Industrial Area, Bangalore - 560013.

Name and Address of the Manufacturer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Sharadamba Nagar, Jalahalli Industrial Area, Bangalore - 560013.

Particulars of sample tested : Control and Relay Panel (C & R Panel)  
Type : Indoor / Outdoor  
Description of test sample : Refer Sheet 2 of 5  
Serial Number : BECSPL-CRP-2022-G  
Number of samples tested : One  
Date(s) of Test(s) : 25 February 2022  
CPRI Sample code Number(s) : EATDIP22S0036  
Particulars of tests conducted : IP 44 Test  
Test in accordance with Standard/Specification : IEC 60529: Edition 2.2, 2.013-08

Sampling Plan : Not Applicable

Customer's Requirement Deviations if any : Nil

Name of the witnessing persons : Mr. Pradhap, R  
Customers representative : None

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words) : None  
Number of Sheet(s) : Five  
Number of Oscillogram(s) : Nil  
Number of Graph(s) : Nil  
Number of Photograph(s) : Six  
Number of Test Circuit Diagram(s) : Nil  
Number of Drawing(s) : Two

(D. Venkatesh)  
Test Engineer

(Dr. P. Chandra Sakhar)  
Head of Division  
Reviewed and Authorized by

ELECTRICAL APPLIANCES TECHNOLOGY DIVISION  
P.B.NO.8086, SADASHIVNAGAR, P.O.  
PROF. SRI C.V. RAMAN ROAD, BANGALORE - 560 080, INDIA  
Tel: +91 (0) 80 22072340, +91 (0) 80 22072344

Sheet 1 of 5

**CENTRAL POWER RESEARCH INSTITUTE**  
**(Member of STL)**  
**CPRI**

**TEST REPORT**

Test Report Number : CPRI/RLSCLTAD22T0225 Date: 13 April 2022

Name and Address of the Customer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Name and Address of the Manufacturer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Jalahalli Indl. Area, Sharadamba Nagar, Bengaluru - 560 013, Karnataka, India.

Particulars of sample tested : 415V 1600A LT Panel  
Type : Indoor  
Description of the sample : Refer Sheet 2 of 7  
Serial Number : BECSPL-LTAC-2022-B  
Number of samples tested : One  
Date (s) of Test (s) : 08 March 2022  
CPRI sample code no(s) : SCLMISC22S0188  
Particulars of tests conducted : Verification of the short-circuit withstand strength on main bus-bars only

Test in accordance with Standard / specification : Subclause 10.11.5.3.3 & 10.11.5.3.5.1 of IEC 61439-1:2020 & IEC 61439-2:2020

Sampling Plan : Not applicable

Customer's requirement Deviations if any : 50KA rms for 1.0 s & 105KA peak on phase bus-bars

Name of the witnessing persons : Mr. Pradhap, R  
Customers representative : None

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words) : None  
Number of Sheet(s) : Seven  
Number of Oscillogram(s) : Two  
Number of Graph(s) : Nil  
Number of Photo(s) : Two  
Number of Test Circuit Diagram(s) : Two  
Number of Drawing(s) : Four

(Sardul P)  
Test Engineer

(Sward Kumar Das)  
Head of Division  
Reviewed and Authorized by

SHORT CIRCUIT LABORATORY  
P.B.NO.8086, SADASHIVNAGAR POST OFFICE  
SRI C.V. RAMAN ROAD, BANGALURU - 560 080 (INDIA)  
Phone: +91 (0) 80 - 22072353 Fax: +91 (0) 80 - 22061213

Sheet 1 of 7

**CENTRAL POWER RESEARCH INSTITUTE**  
**CPRI**

**TEST REPORT**

Test Report Number : CPRI/RLSCLTAD22T0080 Date: 28 February 2022

Name and Address of the Customer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Sharadamba Nagar, Jalahalli Industrial Area, Bangalore - 560013.

Name and Address of the Manufacturer : M/s Brite Engineering Control Switchgear Pvt. Ltd., #5, 8 & 9, MES Road, Sharadamba Nagar, Jalahalli Industrial Area, Bangalore - 560013.

Particulars of sample tested : ACDB / LT Feeder Pillar Panel  
Type : Indoor / Outdoor  
Description of test sample : Refer Sheet 2 of 5  
Serial Number : BECSPL-ACDB-2022  
Number of samples tested : One  
Date(s) of Test(s) : 24 February 2022 and 25 February 2022  
CPRI Sample code Number(s) : SCLMISC22S0161  
Particulars of tests conducted : IP 55 Category 2 Test  
Test in accordance with Standard/Specification : IEC 60529: Edition 2.2, 2.013-08

Sampling Plan : Not Applicable

Customer's Requirement Deviations if any : Nil

Name of the witnessing persons : Mr. Pradhap, R  
Customers representative : None

Other than customer's representatives : None

Test subcontracted with address of the laboratory : None

Documents constituting this report (in words) : None  
Number of Sheet(s) : Five  
Number of Oscillogram(s) : Nil  
Number of Graph(s) : Nil  
Number of Photograph(s) : Six  
Number of Test Circuit Diagram(s) : Nil  
Number of Drawing(s) : One

(D. Venkatesh)  
Test Engineer

(Dr. P. Chandra Sakhar)  
Head of Division  
Reviewed and Authorized by

ELECTRICAL APPLIANCES TECHNOLOGY DIVISION  
P.B.NO.8086, SADASHIVNAGAR, P.O.  
PROF. SRI C.V. RAMAN ROAD, BANGALORE - 560 080, INDIA  
Tel: +91 (0) 80 22072340, +91 (0) 80 22072344

Sheet 1 of 5



## MV Panel Builder Certificate

This certificate is awarded to

### Brite Engineering Control Switchgear, Bangalore

As a MV Panel Builder of ABB India Limited, they are authorized to integrate medium voltage breakers (VCBs up to 36kV Voltage and Vacuum Contactor upto 12kV rating) in their Air insulated Switchgear panel subject to terms & agreement with ABB.

M/s Brite Engineering Control Switchgear has been categorized under "Silver Category"

The validity of this agreement is from 1st April 2023 to 31st March 2025.

**Garish Kothawade**  
Local Division Manager  
Senior Vice President  
Electrification - Distribution Solutions

**Ajay M Gosavi**  
LPG Manager - Control & Protection Products  
Vice President  
Electrification - Distribution Solutions

**Uday R Sampat**  
Head - Sales & Marketing  
Vice President  
Electrification - Distribution Solutions



**Brite Engineering Control Switchgears Pvt. Ltd**  
No 5, 8 & 9 M E S Road, 2nd Main,  
Sharadamba Nagar, Jalahalli Industrial  
Area, Bangalore - 560013.



[sales@briteengineering.net](mailto:sales@briteengineering.net)  
[tender@briteengineering.net](mailto:tender@briteengineering.net)



+91 99000 36725, 95388 43377



[www.briteengineering.net](http://www.briteengineering.net)

