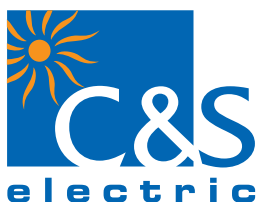




***Isolated Phase BusDuct  
Segregated/Non-Segregated Phase BusDuct  
and Associated Accessories***



**C&S Electric Ltd.**

### OUR VISION



### OUR MISSION

- To create a unique alchemy of outstanding products, operational excellence, path breaking customer service, and compelling marketing.
- To create and relish a vibrant workplace where employees are empowered, cared for, developed, and most of all, provided unlimited opportunity to discover their full potential.
- To continuously enhance our core technologies, and develop new world class technologies and products to expand our offering to customers.
- To consolidate and strengthen our position as India's largest exporter of Industrial power distribution and control equipment.
- To earn a healthy return on investment for the shareholders.
- To ever day experience, the sheer joy of delighting our internal and external customers, and to relish the thrill of participation in India's infrastructure boom.

- C&S shall be the most trusted, respected and preferred brand, for electrical and electronic equipment that finds application in power generation, distribution, control and final consumption.
- In its major businesses C&S shall not only command a domestic market share ranging from 12% to 50% or more, but be known widely as the company "**closest to its Customers**"
- C&S products shall be used to manage power in india's biggest industries, in its highest buildings, in its most critical infrastructure and in millions of its homes.
- The C&S name shall be recognized widely as a benchmark, and shall serve as a role model and an inspiration to other Indian engineering products companies.
- C&S shall be cited as a company that played an important role in making "**Made in India**" a label that is trusted and respected the world over.



C&S Electric Plant-I at Kasna, Noida



C&S Electric Plant-II at Haridwar, Uttrakhand





Shearing Press



Welding on SPBD



Welding bay at shop floor



Programable rolling machine



Programable bending press



Painting booth



Assembly bay



## Contents

Vision & Mission	(i)
Manufacturing Plant	(ii)
Major Manufacturing Facilities	(iii)
Overview, Product Facilities	(1)
Isolated Phase Busduct, Salient Feature, PT & SP Cubicles	(2)
Salient Feature, Generator Auxiliary Compartment (GAC), Generator Adaptor Box (GAC) / Medium Voltage Frame Equipment (MVFE)	(3)
Segregated Phase Busducts , Non- Segregated Phase Busducts	(4)
Type Testing	(5)
Type Testing, Quality & Performance Certificates	(6)
Major Customers	(7-8)
Some Reference Installations	(9)
Other offerings From Power Busbar Division	(10)
Other Divisions of C&S Group	(11)
Subsidiaries / Joint Ventures / Affiliates	(12)

## Overview

Our company (Busduct Division) since its inception in 1982 has been meeting the evolving needs of power generating stations, nuclear power plants, captive power plants, for manufacturing industries, service stations and high rise buildings with its complete and fully tested product line of Busduct and Associated Equipment.

Today, we have an enviable track record of having associated with **10 Units of 660 MW, 23 Units of 500 MW, 20 Units of 250 MW, 20 Units of 150 MW** Thermal Power Stations, Hydro Power Plants and Nuclear Power Plants, besides many Captive/Private Power Projects of capacity less than 100 MW. We have to our credit of successfully installing our Generator Isolated Phase Busducts in the intricate under ground inclined tunnels of Hydro Power Plants viz Nathpa Jhakri Hydro Electric Power Project of SJVNL, Srisailem Left Bank Hydro Power Project of APGENCO, Tala Hydro Electric Power Project of Govt. Of Bhutan. Our increasing efforts to cater high quality busducts confirming to all National and International Standards – BIS, ANSI, IEC, NEMA has been crowned with gradually increasing export enquires.

With a strong combination of product, experience and capabilities we are surging ahead looking forward to serve your busduct requirements anywhere in the world.

## Product Range

- Isolated Phase Busducts (11 to 36 kV upto 28000A) (Air cooled)
- Segregated Phase Busducts (3.3 to 33 kv upto 5000A)
- Non-Segregated Phase Busducts (415 to 1100 v upto 5000A)
- DC Busbar Systems
- Generator Auxiliary Compartments
- PTSP Cubicles
- Neutral Grounding Cubicles
- Line & Neutral Side Terminal Boxes
- Pressurization System for IPB's
- Hot Air Blowing Equipment

C&S provides an extensive product scope designed, manufactured and installed to the exact requirements of the world's leader in power generation equipment.

## Isolated Phase Busduct

C&S offers a wide range of natural air cooled Isolated Phase Busducts from 11 to 36 kV upto 28000A with a maximum Short Circuit Current withstand capability of 285 kA rms for 1 sec. and 900 kA peak. These IPB's have applications in all generating station of 60 MW and above.

### Salient Feature

- ◆ Independent Phase : *Nearly nil mutual induction.*
- ◆ Voltage rise in Enclosure : *Very Low*
- ◆ Excellent shielding under short circuit conditions : *Near elimination of forces.*
- ◆ Negligible induction with neighboring equipments : *No heat and loss effect.*
- ◆ Independent Enclosures : *Phase to Phase fault impossible.*
- ◆ Continuously welded enclosures :
  - *No water and dust ingress.*
  - *Better insulation resistance.*
  - *Enhanced efficiency of bolted contacts.*
- ◆ Free movement of conductor during expansion : *No cantilever forces on insulators.*
- ◆ Enclosures insulated from support structures :
  - *Avoids undesirable induced circulating current beyond regular path.*
  - *No undesirable current loops and hence no heating in supporting beams.*



### PT & SP Cubicles

PT & SP Cubicles used for voltage metering and generator protection. Cubicle house potential transformers, lightning arrestors and surge capacitors along with its associated busbar assembly.

## Salient Features

- ◆ Free standing floor mounted type cubicle.
- ◆ Designed for Degree of Protection of IP-54.
- ◆ Potential Transformers are mounted on drawout type carriages.
- ◆ Automatic Safety Shutters provided are activated on PT carriage withdrawal to prevent accidental touch with live parts of cubicle.
- ◆ Automatic earthing of PT's on carriage withdrawal.
- ◆ Mechanical interlocking provided to ensure the access to PTs is possible only after complete disconnection with main bus.
- ◆ Manufactured with MS CRCA Sheet with robust construction and aesthetical look.



## Generator Auxiliary Compartment (GAC)

Generator Auxiliary Compartment (GAC) is a cubicle intended to house :

- ◆ Busbars with supporting arrangement
- ◆ Current Transformers
- ◆ Potential Transformers
- ◆ Lightning Arrestors & Capacitors
- ◆ Earthing Equipment (NGT & NGR)
- ◆ CO<sub>2</sub> equipment
- ◆ Circuit breakers for Generator and UAT required for the system and serve as a connecting link between Generator and transformer for Gas based captive power plants.

GAC is manufactured out of 3mm thick CRCA Sheet with an overall size of 3.150 x 3.150 x 10,000mm.



## Generator Adaptor Box (GAB) / Medium Voltage Frame Equipment (MVFE)

Generator Auxiliary Compartment (GAC) is a cubicle intended to house :

- ◆ Busbars with supporting arrangement
  - ◆ Current Transformers
  - ◆ Potential Transformers
  - ◆ Lightning Arrestors & Capacitors
  - ◆ Earthing Equipment (NGT & NGR)
  - ◆ Rated for 2000A to 5000A
  - ◆ GAB is manufactured at of Aluminum alloy sheet.
- Rated for 7500A to 17500A





## Segregated Phase Busducts

We offer a wide range of Segregated Phase Busducts for Medium Voltage applications from 3.3 kV to 33 kV upto 5000A. Segregated Phase Busducts find their applications in Power Generating Stations and Industrial or Distribution Plants for lower capacity generator connections, inter-connections between switchgear and Transformers.

### Salient Features



- ◆ 3 Phase busbars housed in a common metallic enclosure of Aluminium / Phase Segregated by non-magnetic (Al) / insulating (FRP) barrier.
- ◆ Metallic barriers generally provide for ampacity more than 2500A, provide excellent shielding effect on busbars during short circuit conditions.
- ◆ Busbars are supported on Porcelain or Epoxy insulators.
- ◆ Designed for Degree of Protection of IP-55 for Outdoor and IP-54 for Indoor Busducts.

## Non-Segregated Phase Busducts

We offer a wide range of Non-Segregated Phase Busducts for Low Voltage applications from 415 V to 1.1 kV upto 5000A. Non-Segregated Phase Busducts are commonly used in industrial utilities, power plants for inter-connection between switchgear and transformers and also for lower capacity of generator (viz DG Sets).

### Salient Features

- ◆ 3 Phase, 4/3 Wire busbars housed in a common metallic enclosure of Aluminium / MS with no phase segregation.
- ◆ Busbars are supported on FRP insulators.
- ◆ Designed for Degree of Protection of IP-55 for Outdoor and IP-54 for Indoor Busducts.

## Type Testing

Our Generator Isolated Phase Busducts are Type Tested for highest peak current of 794 kA & rms value of 285 kA for 1 Sec. during Short Circuit Test carried out at the World's renowned Test Laboratory at KEMA-ARNHEM, Holland and CPRI, INDIA.



Short Circuit Testing at  
KEMA, Holland

Our Isolated Phase Busducts are Type Tested for a Continuous current of 20000A at the World's renowned Laboratory at EDF-Les Renardieres, France.



Temperature rise Testing at  
EDF, France

**In Addition to above for our busducts of varied ranges and designs we have carried out the following tests at CPRI, IIT and Roorkee :**

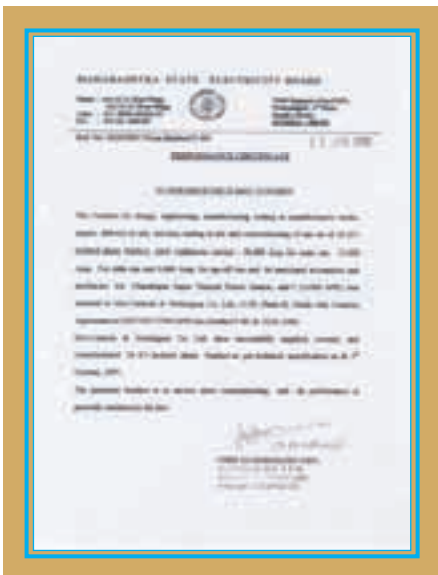
- ◆ Temperature Rise Test
- ◆ Short Circuit Current Withstand Test
- ◆ Impulse Voltage Withstand Test
- ◆ Seismic Test
- ◆ Degree of Protection Test



**Beside, we have in-house test facilities set-up for carrying out the following tests :**

- ◆ Temperature Rise Test on a balanced 3 Phase system upto 20000A
- ◆ High Voltage Test
- ◆ Universal Tensile Strength Testing
- ◆ Milli-Volt Drop Test - DC Source
- ◆ Air & Water Tightness Test
- ◆ Insulation Resistance Test





### List of Major Supply And Installation of Isolated Phase BusDust and Accessories List

S. No.	Brief Technical Details of the Equipment	Utility	Name of the Power Station / Installation site
1	24KV,10KA Isolated Phase Generator Busduct and allied equipment.	Punjab State Electricity Board, Patiala.	Ropar Thermal Project, Stage-III. 2x210MW.
2	24KV, Isolated Phase Generator Busducts and allied equipment.	Bombay Suburban Electric Supply Ltd., Bombay.	Dahanu Thermal Power Project.2x250MW.
3	24KV, 20000A, 12000A, 1600A Isolated Phase Busducts.	MSEB, Bombay.	Chandrapur TPS Unit-7 1x500MW.
4	24KV, 20000A,12000A, 3000A/ 1600A Isolated Phase Busducts.	NTPC, Noida	Vindhyachal STPS, Stage-II, 2x500MW
5	17.5KV, 10000A, Isolated Phase Busducts and associated equip-ment.	AP GENCO, Hyderabad	Srisailam Left Bank Power House.6x150MW
6	11KV, 10000A, Isolated Phase Busducts and associated equipment.	BHEL Hyderabad.	Rusail Power Project,Oman.1x90MW
7	16KV, 10000A, Isolated Phase Busducts and associated equipment.	ANSALDO Chennai .	Neyveli Lignite Corp. Ltd. 1 <sup>st</sup> Exp. 2 x 210 MW.
8	24KV, 12500A, 7500A, 1000A Isolated Phase Busduct and associated equipment.	SJVUNL, Shimla	Nathpa Jhakri Hydro Electric Power Project ( 6 x250MW)
9	15.75KV, 7000A, 1000A Isolated Phase Busducts and associated equip-ment.	Ansaldo Energia S.p.A , Italy.	Akrimota.2x 125MW
10	24KV, 20KA, 12.5KA, 1.25KA Isolated Phase Busducts with all accessories.	Larsen & Toubro Ltd, Chennai	NPC Tarpour, 2 X 500 MW
11	24KV, 10KA, Isolated Phase Busducts with all accessories.	Karnataka Power Corporation Ltd. Bangalore.	Raichur Thermal Power Station Unit 7, 1 X 210 MW
12	24KV, 12KA, Isolated Phase Busducts with all accessories.	Rajasthan Rajya Vidyut Utpadan Nigam Ltd, Jaipur	Suratgarh Thermal Power Station Stage III, 1 X 250 MW
13	11KV, 4700A, Isolated Phase Busducts and associated equipment.	ALSTOM Power, New Delhi.	Dhauliganga HEP, 4 X 70 MW.
14	17.5KV, 10000A, 6000A, 200A Isolated Phase Busducts and associated equip-ment.	TALA, Hydro electric Project Authority, Bhutan.	TALA HEP.6x 170MW
15	13.8KV, 10000A Isolated Phase Busducts and associated equip-ment.	Mitsui & Co. , Hyderabad	Teesta HEP, Stage V, 3 x 170MW
16	12KV, 10000A Isolated Phase Busducts and associated equip-ment.	RRVUNL, Jaipur	Giral Lignite TPP, 1 x 190MW
17	11KV, 9000A Isolated Phase Busducts and associated equip-ment.	Tata Power Co. Ltd, Mumbai	Jojobera TPP, 1 x 120MW
18	24KV, 19000A, 11000A, 1600A Isolated Phase Busducts and associated equip-ment.	NTPC, Noida	Kahalgaoon STPP, 3 x 500MW
19	24KV, 11000A, 8000A, 850A Isolated Phase Busducts and associated equip-ment.	L&T, Baroda	Vemagiri 388.5MW CAPP
20	24KV, 19000A, 11000A, 1600A Isolated Phase Busducts and associated equip-ment.	NTPC, Noida	Sipat STPP, Stage II, 2 x 500MW
21	17.5KV, 6000A, 3500A, Isolated Phase Busducts and associated equip-ment.	ALSTOM, New Delhi	Vishnuprayag HEP, 4 x 100MW.
22	24KV, 8000A, 8473A, 850A Isolated Phase Busducts and associated equip-ment.	L&T, Baroda	Konaseema 465MW CAPP
23	27KV, 20500A, 12000A, 2000A Isolated Phase Busducts and associated equip-ment.	NTPC, Noida	Sipat STPP, Stage I, 3 x 660MW
24	11KV, 10000A Isolated Phase Busducts and associated equip-ment.	Jindal Stainless Ltd, Gurgaon	2x125MW Power Plant at Duburi

S. No.	Brief Technical Details of the Equipment	Utility	Name of the Power Station / Installation site
25	27KV, 20500A, 12000A, 2000A Isolated Phase Busducts and associated equip-ment.	NTPC, Noida	Barh STPP, Stage I, 3 x 660MW
26	24KV, 12500A, 2000A, 1000A Isolated Phase Busducts and associated equip-ment.	Reliance Energy Ltd. Mumbai	DCRTPS, Yamunanagar, 2 x 300MW
27	11KV, 8500A, GTG & STG, Isolated Phase Busducts and associated equip-ment.	GEA Energy system, Ltd., Chennai	Dholpur 330MWCCPP
28	17.5kV, 12000A Isolated Phase Busducts and associated equipment.	Alstom Power India Ltd, Vadodara	NHPC, Subansiri Lower HEP (8 x 250 MW)
29	12kV, 7100A Isolated Phase Busducts and associated equipment.	Indo Canadian Consultancy Services ( ICCS)	AD HYDRO HEP ( 2X 96MW)
30	24kV,19000A Isolated Phase Busducts and associated equipment.	NTPC Ltd, Noida	Korba-III (1x500MW) Dadri – II (2x490MW) Farkka-III ( 1x500MW)
31	24kV,12500A Isolated Phase Busducts and associated equipment.	Punj Lloyd Ltd, Gurgaon	RRVUNL, Chhabra TPS (2x250MW)
32	11kV, 10000A & 15kV, 8000A Isolated Phase Busduct & Associated equipment	BHEL Hyderabad.	Sulaymaniyah Power Plant, Khurdistan, Iraq
33	24kV, 10000A Isolated Phase Busduct & Associated equipment	Alstom Ltd, New Delhi	Utran CCPP330MW
34	24kV,25000A Isolated Phase Busducts and associated equipment.	Reliance Energy Limited, Mumbai	HPGCL, 2 x 600MW Hisar Thermal Power Project, Hisar, Haryana
35	24kV,19000A Isolated Phase Busducts and associated equipment.	NTPC Ltd, Noida	Simhadri STPP Stg-II (2 x 500MW)
36	24kV,21000A Isolated Phase Busducts and associated equipment.	Lanco Infratech Limited, Gurgaon	2x500MW Nagarjuna Power Thermal Project, Near Udipi, Mangalore
37	24kV,19000A Isolated Phase Busducts and associated equipment.	NTPC Ltd, Noida	Indira gandhi STPP, Jhajjar, Haryana (3x500MW)
38	12KV,5500A Isolated Phase Busducts and associated equipment.	Alstom Projects India Ltd, Vadodara	NHPC, Chamera III Hydroelectric Project, HP (3x77MW)
39	12KV,4000A Isolated Phase Busducts and associated equipment.	Alstom Projects India Ltd, Vadodara	NHPC, Uri-II Hydroelectric Project, J&K (4x60MW)
40	15.75KV,7500A Isolated Phase Busducts and associated equipment.	Bhushan Energy Limited, New delhi	Meramandali, Orissa ( 2x150MW) CPP
41	15KV, 10,000A Isolated Phase Busducts and associated equip-ment.	Toshiba Plant Systems & Services Corpn, Japan	Laos Nam Ngum-2 Hydroelectric Power project ( 3x205MW)
42	17.5KV, 9000A Isolated Phase Busducts and associated equip-ment.	Vifer Electric, SL, Spain	ABENGOA, ISCC AIN BENI MATHAR (MAROC) STG&GTG
43	15.5KV, 5024A Isolated Phase Busducts and associated equip-ment.	Alstom, France	Bujagali HEP Uganda, 5 units
44	24kV,21000A Isolated Phase Busducts and associated equipment.	Lanco Infratech Limited, Gurgaon	2x600MW, Anpara 'C' TPP, Sonabhadra, UP
45	24kV,19000A Isolated Phase Busducts and associated equipment.	NTPC Tamil Nadu Energy Co. Ltd, Chennai	Vallur TPP, Vallur, Tamil Nadu (3x500MW)
46	24kV,12000A Isolated Phase Busducts and associated equipment.	NTPC Ltd, Noida	Bongaigoan TPP 3x250MW
47	24kV,23500A Isolated Phase Busducts and associated equipment.	NTPC Ltd, Noida	Barh STPP Stage-II 2x660MW

<b>LIST OF MAJOR SUPPLY AND INSTALLATION OF HT BUSDUCTS &amp; ALLIED EQUIPMENTS</b>			
<b>Sl.No.</b>	<b>Brief Technical Details of the Equipment</b>	<b>Utility</b>	<b>Name of the Power Station/Installation site</b>
1	7.2KV,4000A, Segregated Phase Busduct for Station Transformers.	U.P. Rajya Vidyut Utpadan Nigam Ltd., Lucknow.	Feroz Gandhi Unchahar Thermal Power Project Stage-I, 2x210MW.
2	7.2KV,1600A, Segregated	Punjab State Electricity Board, Patiala.	Ropar Thermal Project, Stage-II, 2x210MW.
3	7.2KV,1600A, Segregated	Gujarat Electricity Board, Baroda	Gandhi Nagar Thermal Power Station Unit 3 of 210MW.
4	6.6KV , 4000A/2000A, Segregated Phase Busducts.	M.P. Electricity Board, Jabalpur.	Sanjay Gandhi Thermal Power Station, Stage-I, 2x210MW
5	7.2KV, 3000A/2500A/ 1250A Segregated Phase Busduct.	Bombay Suburban Electric Supply Ltd., Bombay.	Dahanu Thermal Power Project, 2x250MW.
6	Supply of 6.6KV, Segregated Phase Busduct.	CESC, Calcutta	Budge Budge Project 2x250MW
7	Supply ,erection and commissioning of 6.6KV/11KV Segregated Phase Busduct	IOCL, New Delhi	Panipat Refinery.
8	Supply of 11KV Segre-gated Phase Busduct	M.S.E.B., Bombay.	Chandrapur TPS- Unit 7. (1x500MW).
9	Supply of 7.2KV Segre-gated Phase Busduct	R.S.E.B., Jaipur.	Suratgarh TPS (2x250MW).
10	Supply of 6.6KV, Segre-gated Phase Busduct	NTPC, Noida.	Feroz Gandhi Unchahar TPS, 2x210MW.
11	Supply of 11KV Segre-gated Phase Busduct	NTPC, Noida	Vindhyachal STPP. 2x500MW.
12	Supply of 17.5KV, 1000A, 1600A ,500A & 415V, 4000A Segregated Phase Busducts.	APSEB, Hyderabad	Srisailam Left Bank Power House Project.
13	Supply of 33 KV 2000 A, 6.6 KV 1600 A Segregated Phase Busduct.	Larsen & Toubro Chennai	Neelachal Ispat Nigam Limited, Duburi Orissa.
14	Supply of 7.2 KV 4000 A & 1600A, Segregated Phase Busduct.	Haryana Power Generation Corporation Limited, Panchkula.	Panipat Thermal Power Station Unit - VI
15	Supply of 6.6 KV 2000 A & 5000A Segregated Phase Busduct.	RRVUNL, Jaipur	Suratgarh TPS, Stage III, 1 x 250MW
16	Supply of 11.5 KV 3150 A, Segregated Phase Busduct.	L&T, Mumbai	Salalah Privatisation Power Project, Oman
17	Supply of 11 KV 3000A, 1600A, 1000 A, Segregated Phase Busduct and its accessories.	Kirloskar Brothers Ltd., Pune	Saurashtra Branch Canal Pumping Scheme
18	Supply of 6.6KV 2000 A + 15KV 2500A, HV DC Busduct and its accessories.	Institute of Plasma Research, Gandhinagar	Institute of Plasma Research, Gandhinagar
19	Supply of 6KV, 2450A & 11KV 2050 A Segregated Phase Busduct and its accessories.	Lurgi, Germany	LDPE, Project. Bandar Imam, Iran
20	Supply of 11KV, 2500A, 3.3KV 2750, 3.3KV 1600A Segregated Phase Busduct and its accessories.	NTPC, Noida.	Kahalgaon Super Thermal Power Project. 3 x 500MW.
21	Supply of 11KV, 2500A, 3.3KV 2750, 3.3KV 1600A Segregated Phase Busduct and its accessories.	NTPC, Noida.	Sipat Super Thermal Power Project. 2 x 500MW.
22	Supply of 11KV, 2000A, 6.6KV 3500A, Segregated Phase Busduct and its accessories.	JSPL, Raigarh.	JSPL Project.
23	Supply of 3.3 KV 1250 A, Segregated Phase Busduct.	Al-Ahleia Switchgear Co. , Kuwait	Kuwait National Petroleum Corporation, Kuwait
24	Supply of 6.6 KV 4000 A, Segregated Phase Busduct and its accessories.	BHEL , Hyderabad	TISCO Project



IPBD Installation For  
2 x 270 MW CCPP at Berrouaghia, Algeria



IPBD Installation For  
2 x 500 MW NPCIL- Tarapur Atomic Plant



IPBD Installation For  
2 x 500 MW MSEB, Chandrapur, STPP, unit VII



IPBD Installation For  
330 MW CCPP at Dholpur



Sandwich Insulated Busbar Trunking System  
(Low - Impedance)  
(500 ~ 5000 Amps.)



Compact Air Insulated Busbar Trunking System  
(125 ~ 2000 Amps.)

Lighting Trunking  
(32 - 63A)





## Switchgear & Protection Business

### Low Voltage Components Division

#### Power Distribution Components

Air Circuit Breakers, MCCBs, Switch Disconnectors, Fuses Units, Switch Disconnectors, Changeover Switches and Fuses



#### Power Control Components

Contactors, Overload Relays, MPCBs, Electronic Motor Protection Relays and Motor Starters (Agro and Industrial)



#### Final Power Distribution Components

Miniature Circuit Breakers  
Distribution Boards  
Residual Current Circuit Breakers



### Low Voltage Panels Division

Modular Motor and Power Control Centers  
Intelligent PCCs and MCCs  
Installation, Commissioning and Services



### Protection and Control Division

Complete range of current, voltage, frequency, distance and multifunctional relays. Functional Relays - Synchronizing, Load Management, Auto Mains Failure Control & Relay Panels for Transmission and Distribution Networks



## Lighting & Wiring Accessories Business

Indoor and Outdoor luminaires  
Floodlighting and Street Lighting  
Modular Switches and Sockets  
Intelligent Building Controls  
Industrial Plugs and Sockets





## C&S Efacec MV India Pvt. Ltd.

3.6kV to 36kV Medium Voltage Metal Clad Indoor Switchgear  
12kV Ring Main Units



## Controls & Switchgear Himoinsa (P) Ltd.

DG set for power generation  
LPG / CNG sets for power generation  
Control Panel including AMF units



## EON Telesystems Pvt. Ltd.

IPCU (Integrated Power Control Unit) for telecom installations  
Customized control panels for Diesel Generating set applications in telecom sector



## RS Components & Controls India (P) Ltd.

World's largest supermarket for electrical, electronic, pneumatic, mechanical, health, safety and information technology products  
Access to over 2,00,000 products of renowned brands from around the world delivered at your door step against rupee payment



## Wago & Controls (India) Ltd.

Screwless Cage Clamp Connectors - Fit & Forget Series  
Rail or PCB Mounted Terminals

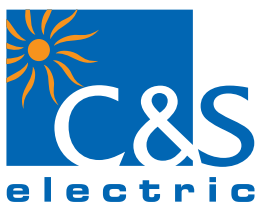


## Leroy Somer & Controls (India) Ltd.

Alternators - 10kVA ~ 25000kVA



## Haridwar, Campus



### C&S Electric Ltd.

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