# PCE

## Power Controls & Equipments

*An ISO 9001:2008 Certified Company*

PERFECTION COMMITMENT PCMS

JAS-ANZ

CRISIL

*LT/HT ELECTRICAL POWER & CONTROL PANELS*
*MCC, PCC, DB, AMF, APFC*
*DG SYNCHRONIZATION PANELS*
*DRIVE PANELS*
*BUS DUCTS*
*A-CLASS ELECTRICAL CONTRACTOR*

25 Years of excellence

UNISTAR UNIVERSAL CABLES LTD.

ABB

NEPTUNE NAME THAT CARRIES POWER

EMERSON Network Power

www.pcepower.in

- An ISO 9001:2008 and Crisil® certified company.
- End to end solutions from designing to manufacturing of electrical control panels customized to the requirements of our valued clients.
- Channel partners with ABB, Unistar – Universal Cables Ltd. Capacitors, Neptune Systems India Ltd., & Emerson Electric Co.
- CPRI approved panels for –
  - Short circuit test, 4000A 50kA capacity
  - Temperature rise test upto 2000A
  - IP 55 protection test
- Range of panels include power generation panels; DG synchronization panels; AMF, APFC and DB panels; power control centers; motor control centers; PLC based auto load sharing systems; drive panels; bus ducts.
- State-of-the-art manufacturing facilities assure eminent quality and timely deliverance of electrical control panels.
- Clientele include power generation plants, cement industries, metal plants, railways, telecom companies, food and chemical processing industries, educational institutes, shopping malls, townships, residential buildings, and various other government and privately owned organizations and industries.

# About us

## HISTORY

Originally started as A-class electrical contractor in 1986, Power Controls & Equipments (PCE) manufacturing facilities got operational in 1989. Since then, we have established ourselves as one of the well appreciated manufacturers of electrical control panels and providers of industrial, commercial, institutional and residential electrical solutions in India. Recently PCE has received ISO 9001:2008 and Crisil® certifications and made major advancements in its manufacturing units and processes, continuing to excel in quality and customer satisfaction.

## PCE PROVIDES A TOTAL END TO END ELECTRICAL SOLUTION

Our team of highly skilled engineers and technicians, state of the art manufacturing facilities, and more than 25 years of expertise in the field enables us to provide solutions from designing to manufacturing to installation and maintenance of optimal quality and most efficient electrical control panels.

With strong technical expertise and background, the PCE management is committed towards providing the best resources and consultancy to our valued customers, and also motivates the technical personnel towards providing the flexibility that accommodate to the requirements of our customers and associates.

## PCE GUARANTEES QUALITY AND CUSTOMER SATISFACTION

The quality of our work, customer support, and flexibility in design and manufacturing of electrical control panels catering to the needs of individual customers makes us one of the largest and most admired electrical control panel manufacturers in the country today, which is also reflected from the feedback of our customers in India and abroad.

Recipient of the ABB's AWARD FOR THE BEST PERFORMANCE in 2009, (LV SWITCHGEAR) IN THE WESTERN REGION, we make sure our customers get the highest quality and best products for their control panels from our channel partners, associates, and supplier. We utilize products from some of the most esteemed names in the industry including ABB, Unistar-UCL, Neptune-Ducati, Crompton-Greaves, Siemens, Conzerv, L&T, ElMeasure, Schneider Electric, HPL, and many others.

# Products

## DG SYNCHRONIZING AND PLC BASED AUTO LOAD SHARING SYSTEMS

PCE offers a variety of PLC based synchronization and auto load sharing control panels. Generally, these panels are utilized to provide synchronization and automatic sharing of load between various power sources/lines such as generators, grids, etc. PCE offers synchronization panels with PLC processors with a high degree of customization, which can be configured to meet the user requirements.

- Degree of protection – IP : 55 (CPRI tested)
- Rated Voltage – 415V / 690V
- Rated Current – 6000A
- Ambient Temperature – 55 °C

## POWER CONTROL CENTERS (PCC)

PCE power control centers find use in a wide range of applications that involve distribution of power for all kinds of industries. Our PCCs are highly efficient with ease of installation, set-up and maintenance.

- Type – Fixed and draw out
- System Voltage – 440V
- Max. Rated Current – Upto 6000A, 65kA
- Ambient Temperature – 55 °C
- CPRI tested for degree of protection, temperature rise withstand, and short circuit withstand.

## MOTOR CONTROL CENTERS (MCC)

PCE delivers high end motor control centers and motor starter control systems containing various types of motor starting such as star-delta, direct-on-line (DOL), soft-starter, auto-transformer, etc. These panels are compatible with PCC/DSC based systems, with local and remote operation facility.

- Type – Fixed, modular and non-modular
- System Voltage – 440V
- Max. Rated Current – Upto 4000A, 65kA
- Ambient Temperature – 55 °C
- CPRI tested for degree of protection, temperature rise withstand, and short circuit withstand.

# Products

## AUTOMATIC POWER FACTOR CORRECTION (APFC) PANELS

Automatic power factor control systems are required to maintain the power factor of a plant/unit close to one (or theoretically one), to improve efficiency. PCE APFC panels utilize high quality APFC relays, capacitors, reactors, and contactors to deliver high class of performance.

- Harmonic filtration system with 7% & 14% reactors also available.
- Rated Voltage – 440 V
- Max. Rated Current – upto 4000A, 65 KA
- Ambient Temperature – 55 °C

## RELAY AND METERING PANELS

PCE manufactures high quality panels for various relay and metering applications such as HT breaker operation, transformer operation, motor starting and capacitor switching. Generally, it consists of protective relays for system protection and metering equipments to measure parameters.

- Type – Fixed and draw out
- Relay Type – Annunciation with fault indications, numerical with communication ports, others
- System Voltage – 440V
- Max. Rated Current – Upto 8000A, 65kA
- Ambient Temperature – 55 °C

## POWER DISTRIBUTION SYSTEMS

These panels are used for distribution of power to the consumers at the lower end, therefore, in general cases, the maximum current carrying capabilities of these panels are not more than 800A. These panels help detect and clear faults locally at the lower end so as to avoid any damage to the system at the higher end i.e. generation and transmission levels.

- Type – Fixed/draw out, floor mounted/wall mounted, indoor/outdoor
- System Voltage – 440V/ 415 V , 50 Hz
- Max. Rated Current – Upto 800A / 600A
- Short Circuit Level – 30 / 50 KA
- Ambient Temperature – 55 °C
- CPRI tested for degree of protection, temperature rise withstand, and short circuit withstand.

# Products

## HT PANELS

PCE manufactures HT panels for operation at high voltage levels including 3.3KV, 6.6KV, 11KV, 22KV, 33KV.

- Type – Fixed and draw out, modular & non-modular.
- Circuit Breaker Type –VCB, GCB.
- Ambient Temperature – 55 °C

## AUTOMATIC MAINS FAILURE (AMF) PANELS

PCE is a leading provider of well fabricated AMF panels. AMFs are most commonly used in systems that require automatic changeover from mains to DG, and other similar applications. PCE provides complete custom solutions from simple AMFs to high end microprocessor based AMFs for complex systems.

- Type – Fixed
- System Voltage – 440V
- Max. Rated Current – Upto 4000A, 65kA
- Ambient Temperature – 55 °C
- CPRI tested for degree of protection, temperature rise withstand, and short circuit withstand.

## BUS DUCTS

Assembly of fixed and insulated conductor bars used for various applications, such as providing connections to big switchgears or power supplies into commercial/residential buildings and industries, are referred to as Bus Ducts. PCE uses CNC bending/pressing machines to manufacture high quality well finished bus-bars, suitable for all kinds of applications.

- Type – Segregated / non-segregated / interleaved
- System Voltage – 30V / 110V / 440V / 3.3KV / 6.6KV / 11KV
- Short Circuit Level – upto 65 KA
- Ambient Temperature – 55 °C
- CPRI tested for degree of protection, temperature rise withstand, and short circuit withstand

An *ISO 9001:2008 and Crisil® certified company*, PCE produces panels that have been *tested and approved by the Central Power Research Institute (CPRI)*, Bhopal. These tests include:

- 50kA, 4000A Short Circuit Test.
- Temperature Rise Test Upto 2000A.
- IP – 55 Protection Test.

## Manufacturing Facility

Located in the city of Indore, commercial capital of the state of Madhya Pradesh, our manufacturing facility spans across an area of around 18,800 square feet. The manufacturing process, which involves custom designs with latest high-end software tools, highly mechanized fabrication process and metal works with the hands of vastly skilled human resources utilizing automated machines, surface treatment in powder coating plant, advanced mechanisms for wiring and assembling by specialist workforce. Each panel that goes out of manufacturing plant undergoes testing for perfection at each stage of its manufacture. Some of the machines utilized at our facility include the following:

- Multi Processing Machine for Busbar
- Powder Coating Plant.
- Sand-Blasting Plant.
- 4000A Testing Bench.
- Earth Tester.
- HV Tester.
- Primary Testing Kit.
- Power Press, Fly Press.
- 8 Tanks Process Unit.
- Metal Cutting Tools.
- Megger, Compressor, Grinder.
- Hydraulic & Mechanical Press Break.
- 2500 Mm Shearing Equipment.
- Busbar Bending and Cutting Press.
- Drilling, Welding & Fabrication Tools.

# Associations

## GROUP COMPANIES:

- H & R Corporation (Electrical equipments trading)
- H.K. Jain Electrical Contractors. (A class Contractors)
- Sapient Institute of Management Studies (Management College)
- Shri Lala Pulses (Pulse Manufacturing)
- Lala & Company (Food Grain Trading)
- Amarlal Sachchanand (Food Grain Trading)

## CHANNEL PARTNERS:

- **ABB Asea Brown Boveri Limited**
  Channel Partners for HT & LT Switchgear.
- **Unistar Capacitors, Universal Cables Limited**
  Channel Partners for HV & LV Capacitors.
- **Neptune Systems Private Limited**
  Channel Partners for HV & LV Capacitors
- **Emerson Electric Co.**
  Official suppliers of UPS and invertors.

## CONSULTANTS WE HAVE ASSOCIATIONS WITH:

- Avant-Garde Engineers & Consultants Pvt Ltd, Mumbai
- Tata Consulting Engineers (TCE) Ltd, Mumbai
- Engineers India Limited, Mumbai, Delhi
- S.K. Samanta & Co. Pvt Ltd
- Holtec Consulting Pvt. Ltd, Gurgaon
- Larsen & Toubro Ltd. ECC Division, Kattapalli
- Eskam Engineering Consultants, Mumbai
- NV Bhale Associates, Indore
- ECE Consultants, Indore
- Lodha Mathur And Associates
- Versatile Engineering Services Pvt Ltd
- EWDPL Engineering Services, Indore
- Trouble Shooters, Indore

## YOU NAME IT, WE HAVE IT.

We are associated with almost all of the biggest names in the industry in the form of channel partners, suppliers, consultants, etc. Therefore, our customers enjoy the flexibility of selecting the perfect mix of design, manufacture, and products for their electrical control panel requirements in terms of quality, cost and performance.

# Some of Our Prestigious Customers in Various Industries

## METAL / CEMENT INDUSTRIES

- Jindal Steel Works Ltd., Bellari
- BRG Steels Ltd., Angul
- SKS Ispat Pvt. Ltd. (Capacitor Panels)
- SMS Metals Pvt. Ltd., Dewas
- Real Ispat Ltd., Raipur
- Maa Samleswari Industries Ltd., Orissa
- Satya Power And Ispat Pvt Ltd., Gatori (Dist. Bilaspur)
- Lafarge Cement Ltd., Bilaspur
- Revathi Cement, Satna
- Bharat Aluminum (BALCO) Ltd., Korba
- BMA Stainless Steels Ltd., Burdhwan, West Bengal
- ACC Cement Ltd., Bhatinda
- Century Cement Ltd.
- Madras Cement Ltd., Chennai
- Hindalco Industries Ltd.
- ABG Cement Ltd.
- Singhal Enterprises Pvt. Ltd., (Power Generation)

## FOOD / AGRICULTURE / CHEMICAL INDUSTRIES

- Ruchi Soya Refinery Ltd., Patalganga, Mumbai
- Agro Solvent Pvt. Ltd., Datia
- Dhanuka Solvent, Neemuch
- Sharda Solvent Ltd. (Power Generation
- Bhaskar Foods Ltd., Amravati & Dewas
- Bhaskar Ex Oil Ltd., Nagpur
- Ind Agro Limited, Nagpur
- Spectrum Pharmulation, Roorki
- Anik Industries, Dewas & Bhopal

## ENGINEERING / OTHER INDUSTRIES

- Crompton Greaves Ltd, Malanpur.
- Pinnacle Industries Ltd, Pune
- MP Wind farms Ltd. (Wind Power Gen Project), Dewas
- Punasa Dam (Jaiprakash Associates Ltd.), Punasa
- Adage Automation Pvt Ltd., Mumbai
- Unistar – Universal Cables Ltd., Satna
- Sujay Mills, Bangalore
- Ad-Manum Packagings Ltd., Pithampur
- Dainik Bhaskar Press, Indore
- Naidunia News & Networks Pvt Ltd., Indore

# Some of Our Prestigious Customers in Various Industries

## COMMERCIAL / RESIDENTIAL / EDUCATIONAL INSTITUTES / RECREATIONAL BUILDINGS

- Treasure Bazaar, (EWDPL), Nanded
- Treasure Island, (EWDPL), Chandigarh & Indore
- Treasure Town, (EWDPL), Udaipur
- C21 Century Mall, Bhopal
- DB Malls Pvt Ltd, Bhopal
- Sayaji Hotels Ltd, Indore & Pune
- Hotel Country Inn
- Ginger Hotel, Indore
- Indore Central Mall, indore
- Silver Spring Township, Indore
- Ocean Park Luxury Homes
- Shri G.S. Institute of Tech. & Science (SGSITS), Indore
- Devi Ahilya Vishwavidyalaya (DAVV), indore
- CHL – Apollo Hospital, Indore
- Medicaps Institute of Tech & Management, Indore
- Indore Institute of Science & Tech. (IIST), Indore
- Emerald Heights Int'l School, Indore
- Agrawal Public School, Indore
- Chameli Devi Public School, Indore
- Bhuwans Public School, Indore
- Indore Public School, Indore
- Sri Satya Sai Vidya Vihar, indore
- New Digamber Public School, Indore
- SICA School, Indore
- Professional Institute, Indore
- Gupta Tutorials, Indore

## GOVERNMENT / SEMI-GOVERNMENT ORGANIZATIONS

- Dr. Babasaheb Ambedkar International Airport, Nagpur
- Jalgaon Airport
- Devi Ahilyabai Holkar Airport, Indore
- Bharat Sanchar Nigam Ltd(BSNL), Bhopal
- Center for Advanced Technology (RRCAT), Indore
- C.P.W.D., Madhya Pradesh
- Bank Note Press (SPMIL), Dewas
- State Bank of Indore
- Bharat Heavy Electrical Ltd (BHEL), Bhopal
- M.E.S., Mhow, Jabalpur, Gwalior
- Narmada Hydroelectric Development Corp Ltd (NHDC).

MP WIND FARMS LTD., DEWAS

## Our Prestigious Projects

# Clientele

COUNTRY INN & SUITES BY CARLSON

BSNL Connecting India

CHL-Apollo Hospitals INDORE touching lives (ASSOCIATE OF APOLLO HOSPITALS ENTERPRISE LTD., CHENNAI)

Cadbury

SAYAJI Yours. Truly.

HINDALCO ADITYA BIRLA GROUP

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Kriti

ginger A TATA Enterprise

JINDAL STEEL & POWER

बी एच ई एल BHEL

Ruchi

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भारतीय रेल INDIAN RAILWAYS

RAJA RAMANNA CENTRE FOR ADVANCED TECHNOLOGY, INDORE

apl

TREASURE ISLAND

ACC cement

एन एच डी सी NHDC तमसो मा ज्योतिर्गमय ISO 9001-2000 Certified

IST Indore Institute of Science and Technology

भारत का सबसे तेज बढ़ता अखबार दैनिक भास्कर

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नईदुनिया विश्वास की परंपरा

DB CITY

AD-MANUM

स्टेट बैंक ऑफ इंदौर State Bank of indore

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SECURITY PRINTING AND MINTING CORPORATION OF INDIA LIMITED

Kriti Indurtries (India) Ltd., Pithampur

Crompton Greaves Ltd. (Transformer Division), Malanpur Plant

Sayaji Hotels Ltd., Indore

Treasure Island (EWDPL), Nanded

Bhaskar Foods Ltd, Amravati

Bhaskar Foods Ltd., Hingoli

DG Synch Panel, Sayaji Hotels Ltd. Pune

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PCE

Power Controls & Equipments

***An ISO 9001:2008 Certified Company***


**Office**: 154/47, New Agrawal Nagar, Manish Bagh Colony, Indore, MP – 452001

**Phone**: 0731-2465230, 4215600.

**Factory:** 108, Chitawad Main Road, Palda Naka, Indore, MP – 452001

**Phone**: 0731-2400819, 4215700

**Mobile**: Mr. Hemant Jain – 94250 81356, Mr. Rajesh Kala – 94250 55022

**Fax**: 0731-2403712

**Website**: www.pcepowe.in

**Email**: pceindore@gmail.com