

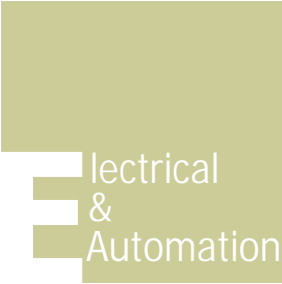


Electrical & Automation



www.raj-electricalandautomation.com

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*R*aj Process Equipments and Systems Pvt. Ltd. Is a leading turnkey solution provider and Process equipment manufacturer to variety of sectors. The company has dominant presence in the domestic market and spreading wings in every continent of the world. To facilitate ongoing thrust for quality products and better efficiencies of plants and equipments, Raj has launched Industrial automation and Control Panel Division. This division will provide innovative, reliable and durable products which will ensure higher accuracy and efficiency.

After inception, Raj Electrical and Automation division is emerging as renowned firm distributing a vast range of industrial panels (MCC, PCC, HT, LT, MIMIC, VFD, and PLC panels) and Industrial Automation. We also provide tailor made electrical solutions to various turnkey projects in various sectors thereby attaining maximum efficiency.

In-house design and strong team of engineers, we are taking a giant leap in this sector with stringent quality norms and procedures ensure timely delivery and international quality of the product.

MCC Panels (Motor Control Centers)

A motor control center (MCC) is an assembly of one or more enclosed sections having a common power bus and principally containing motor control units. MCC panels are used in various industries for supply of right amount of power to different sections with system protection. We manufacture a range of MCC panel in standard and customized sizes as per the requirement of our valued customers.

These MCC panels are widely used to satisfy the demands of different industries like refineries, chemicals and pharmaceuticals, food and beverages and many others.

MCC are offered up to 1600 A operational current at 40 degree Celsius ambient Temperature in single and double front design for 50 kA short Circuit Withstand Capacity. The types of starters include Automatic Star Delta; Direct On-line, Soft Starters, Variable Frequency Drives, Stator Rotor Starters and Autotransformer Starters. These **MCC panels** can withstand extreme temperature variation and still deliver long lasting performance. We manufacture the panels with ingress protection for the range IP42-IP67 as per the client requirement. We

also manufacture the Flameproof Panels and Non Flameproof Panels. These panels are manufactured in stainless steel construction and carbon steel construction. We do finishing of the panels up to 420 grit in case of stainless steel and seven tank process powders coating in case of carbon steel. The MCC Panels are available in fixed type in single / double front execution

MCC panels are equipped with

- Feeder circuit breaker
- AC variable frequency drives
- Compatible to be interlinked with PLC

We provide multiple power stabs which are also useful in supporting high power industrial motors.

Features

- Temperature indicator
- Sturdy construction
- Digital control system
- Safety fuses
- In-built overload protection
- Cabinet available with various materials of construction
- Simple Operation
- High Performance
- Low Maintenance
- Durable

Applications

- Water pumps
- Heavy machinery
- Industrial equipment
- Medical & office equipment
- Automotive industry
- Processing units
- Electronics and telecommunications machinery



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PLC Panels

A programmable logic controller (PLC) or programmable controller is used for automation of electromechanical processes.

We manufacture the PLCs which are designed for multiple inputs and output arrangements, extended temperature ranges, immunity to electrical noise, and resistance to vibration and impact.

We are Manufacturer and Supplier of a wide range of Programmable Logic Controller (PLC) Panels in Pune, India which are manufactured with the help of advance technology and high quality raw material. This ensures a long lasting performance and smooth operations. We also manufacture customized PLC panels as per the client's requirement.

Depend on the Client requirement, we suggest the Quality brands from the globe e.g. Siemens, Allan Bradley, Schneider etc. We manufacture the panels with ingress protection for the range IP42-IP67 as per the client requirement. We also manufacture the Flameproof PLC Panels and Non Flameproof PLC Panels. These panels are manufactured in stainless steel construction and carbon steel construction. We do finishing of panels up to 420 grit in case of stainless steel and seven tank process powders coating in case of carbon steel.

Raj group has proved its efficiency by offering innovative solutions in Industrial Automation using PLC's, SCADA and AC / DC Drives for various application in industries like Automobile, Sugar, Cement, Paper, Chemicals, Material handling, Pharmaceutical, Steel, packaging, machine tools, Synthetic fibers and textiles.

We cater to all the requirements of our customer for Plant / Equipment / Machine

and Process / Automation.

We are also strengthening our feet in the field of Pneumatic Products. PC / DCS / SCADA / AC-DC drives where we take up complete Engineering / Software Development and commissioning projects.

Features

- Simple Operation
- Sturdy Construction
- High Performance
- Low Maintenance
- Durable
- Withstands extreme weather conditions
- Safe

Application

- Manufacturing Unit
- Plant Automation
- Machine automation
- Commissioning of the plant
- Pumping system
- System Atomization



Instruments & Control Panels

*W*e are one of the leading manufacturers of instruments and control panels. The Instruments and control panels are used in various industries. We manufacture instruments and control panels as per the international standard and also customized. We manufacture the panels with ingress protection for the range IP42-IP67 as per the client requirement. We also manufacture the Flameproof Panels and Non Flameproof Panels. These panels are manufactured in stainless steel construction and carbon steel construction. We do finishing of the panels up to 420 grit in case of stainless steel and seven tank process powders coating in case of carbon steel. We manufacture instruments and control panels like VFD Panels, Sequential timer, Temperature Controller and many more.

Features

- Simple Operation
- Sturdy Construction
- High Performance
- Low Maintenance
- Durable
- Safe

Applications

- Pharmaceutical
- Food and Beverages
- Chemical
- Fertilizers
- Ceramic
- Mineral
- Bio-chemicals
- Cement



A.C. & D.C. Drivers Panels

1. DC drive panel which is low on energy consumption and offers great results especially where electricity is used in high scale like power plants etc.
2. The applications are sugar mills, steel plants and refineries. It can help in saving electricity up to 30% and have great power ranging from 7.5KW to 750KW.

AC drive panel are extremely effective and ideal for controlling the speed of the system by controlling the speed of the motor. These are useful for a part of pump or fan or may be to mechanical equipments like conveyor or mixer and designed as per client's requirement, high-performance motor control, fit to be connected to any form of mechanical design and transform electric energy to mechanical

Features:

- Shock proof
- Sturdy Construction
- Corrosion resistant
- Compact
- Polished finish
- Speed Control or Constant Speed

Applications

- Heavy machinery
- Automotive industry
- Electronics and telecommunications
- These panels are used where there is high accuracy of movement or highest stability in motor RPM/speed is required.

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LT Panels (PCC Panels)

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we offer high quality LT Panels effective for maximum power utilization. The LT panels are widely used in various industries extensively for utilization of power in production processes. The panels will be totally dust and vermin proof. They will have fixed or draw out type executions as many be desired. The panels are customized as per the customer requirement for high performance.

Power Control Centers are being designed and manufactured up to 4000A rating, suitable for operational Voltage of 415V in a 3 phase 4 wire distribution systems with an insulation voltage up to 660V at an ambient Temperature of 40 degree Celsius. Short circuit withstand capacity is 50 KA, these parameters are type tested. The switchboards offered are in Fixed and semi draw-out type configuration with single front design

Having wide application, these are used in various industries to control the voltage. Some of the industries are dairies, plastic industry, refrigeration plants, batching

plants, chemical plants. We manufacture the panels with ingress protection for the range IP42-IP67 as per the client requirement. We also manufacture the Flameproof Panels and Non Flameproof Panels. These panels are manufactured in carbon steel construction. We do finishing of Carbon Steel panels in seven tank process powders coating.

Features

- Sturdy construction
- Safe
- High performance
- Corrosion resistance
- Durable

Applications

- Pharmaceutical
- Food
- Chemical
- Fertilizers
- Ceramic
- Mineral
- Bio-chemicals
- Cement



HT Panels

*W*e manufacture high quality HT panels for our clients with an extensive range. These compact outdoor type systems are widely used in various industries.

The panels are provided with circuit breakers or switch fuse that protects the equipment from any sudden voltage fluctuations. HT Panels fabricated using high quality material these ensure their long functional life, durability, and effective performance. We manufacture the panels with ingress protection for the range IP42-IP67 as per the client requirement. We also manufacture the Flameproof Panels and Non Flameproof Panels. These panels are manufactured in carbon steel construction. We do finishing of Carbon Steel panels in seven tank process powders coating.

Applications

Process Automation and Control Panel

- Steel Plant
- Sugar Plant
- Cement Plant
- Veg. oil refineries
- Textile Industries
- Paper Industries
- Distilleries
- Dairy Plant
- Powder Plant

Factory Automation and Control Panel

- Sand Plant
- Material handling
- Packing

MIMIC Control Panel:

As per Customer Requirement we provide MIMIC panel including Drives, PLC systems. With Auto Manual Both Operation. Auto operation will do on PLC or SCADA and manual operation on Temp Controller.



Head Office

- Jai Ganesh Vision, 'B' Wing, 3rd Floor,
Jai Ganesh Fame Building, Akurdi, Pune - 411035, India
Tel: +91-20-40710010
Telefax: +91-20-40710009
Email: sales@rajprocessequipment.com
Website: www.rajprocessequipment.com

Regional Offices

- Hyderabad
Cell. - +91-9550151122.
- C-24 Barcelona Business Hub,
Odhav Circle, S P Ring Road, Odhav, Ahmedabad- 382 415
Cell. - +91-7600022352
- Unit No. FF-47, 1st Floor, Omaxe Square,
Jasola District Centre, Behind Jasola Apolo Hospital,
New Delhi - 110 044; Tel. +91-11-40503519
- Second Floor, No: 6/9, Harikrishna colony,
Nandambakkam, Chennai-600 089.
Cell: +91-8220058290

Marketing Representative- International

- Bio-Tropic Industries Sdn. Bhd.
19 -1 A , 1st Floor , Block 6 , Jalan Pahat H / 15 H,
Seksyen 15 , 40200 Shah Alam,
Selangor Darul Ehsan , Malaysia
Tel. - +6 03 5523 2219 , Fax - +6 03 5523 9995
Contact Person - Mr. Ganesan , Cell. - +60355239995
E-mail - sales@bio-tropic.com, ganesan@bio-tropic.com
- PT. Keiso Process & Enviro Industries
JI-Tarum Barat II Blok Kav, Pl.No.30, Cikarang Baru,
Cikarang, Bekasi - Indonesia
Tel. - +62-21-29083225, +62-21-92755156
Contact Person - Mr. Irawan
- Mykhaylo Siyatskyy
Apt 3, Tsupov Block Bld 18, Lugansk, Ukraine-91002
Tel. - +380501435566
Email - michaelseyatskyy@gmail.com
- OOO Castola Moscow,
Suchevskaya Street 19, Block 4
Tel - 8 (495) 787-95-32, 787-62-27, Cell. - 8 (903) 960-10-15
Contact Person - Mr. Nikolay Kurilovich
Email - cast2305@mail.ru
- FC GIDA VE MAKINA VE DiS TICARET ANONiM SiRKETi
Istanbul dunya ticaret merkezi,
B2 Blok, kat 6, No 227, Istanbul, Turkey
Tel. 0090 212 560 4625
- Simra Intl. Fze.
PO Box 46798, Dubai - UAE,
Contact Person - Mr. Saleem Shaikh
Cell. - +971 50 5586727
Email - simra_intl_fze@yahoo.com

Manufacturing

- Unit-I, Plot No. 166 & 167, Sector No. 7,
PCNTDA Bhosari, Pune - 411 026 (India)
Tel. - +91-20-27119973, 27124145
- Unit-II, Sr. No. 373, Village Kharabwadi,
Chakan, Tal. Khed, Dist. Pune (India)
Tel. - +91-2135-252251, 255654
- Unit-III, Plot No. I-14, SEZ,
Village - Nimgaon, Tal. - Khed, Dist Pune - 410505 (India)
- Unit - IV Gat No. 530, A/p Ahire,
Tal - Khandala, Dist - Satara - 412802
Tel. - 020-40710010

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