new india electricals

LOW VOLTAGE CONTROL PANELS

- GENERATOR AMF & SYNCHRONIZING
- POWER & MOTOR CONTROL CENTERS
- PLC & INTELLIGENT DRIVE PANELS
- AUTOMATION SYSTEMS
- FEEDER PILLARS & WEATHER PROOF KIOSKS
- BUS DUCT SYSTEMS

INTRODUCTION

Our aim is to provide a comprehensive range of highly reliable POWER equipments to Utilities, Contractors, Industry users, OEMs and Projects. With the right mix of T&D products, a WORLD-CLASS Team and a REPUTABLE name for engineering and project management, we can provide you with the ideal solution for your particular power supply & distribution networks, whether standardized or customized.

Buying equipments from New India Electricals means gaining a partner you can rely on for your equipment's life time. We shall help you make decisions regarding your needs right from the early design stage, to the actual delivery phase and throughout its life cycle.

Our field of expertise covers the entire END-to-END solution for POWER DISTRIBUTION & TRANSMISSION upto '400KV. Design, Manufacture, Source, Supply, Erect, Test, Commission, Handover & Maintain.

Our equipments are manufactured under the most stringent quality processes with a clear focus on performance and longevity. This is why we source sub components from global leaders like ABB, AREV A, SIEMENS, ALSTHOM, L&T and the like. We design and manufacture the entire range of Low Voltage Control Panels with a simple philosophy of: Longevity & Reliability. Our Specifications conform to relevant IS / BS & IEC Standards. Our units are designed to withstand a higher degree of electrical impulses, short circuit forces, thermal and dynamic stresses. With Optimum utilization of active material we achieve compactness & efficiency in performance. With special design features developed over many years of practical experience we are able to offer trouble-free performance during surges & frequent short circuits. By Standardising manufacturing techniques we ensure cost effectiveness & reliability in performance.

GENERATOR AMF & SYNCHRONIZING:

Over the many years we have acquired a skill and experience in Generator panels that can be rivaled by few. We can design DG Synchronizing Panels based on load sharing, starting, stopping, with load transfers based on KW, KVAr and PF. Changing of schemes made through PLC & Softwares that work in tandem with the Generator Controls & Relays. In addition to the normal controls our panels can also be designed to enable power monitoring, communication, protection & display all as a standard feature.

With our experience in using RTC tools and equipments we can design systems that can accurately and remotely manage: load addition, load reduction, peak-demand management, timer control of loads over long durations, KW dependent programs, day, date & time dependent programmers, optimum utilization of DG is achieved to ensure efficiency & longevity of the system.

We can also incorporate Load dependent stop & stop facility ; Synchronization of Unequal sizes of DG sets & Multiple DG sets can be synchronized with ease. Our record of maximum Generators is 9 units at one location, a first of sorts that has not yet found a match.

POWER & MOTOR CONTROL CENTERS:

Owing to the complete modularity of our system we can design sophisticated PCCs & MCCs with simplicity. We have learnt our lessons by making units and systems for global customers like L&T, ABB, SIEMENS, AREVA, CGL and SCHNEIDER. With this system, the physical dimensions of each compartment can be varied in width, height and depth to accommodate the various space requirements for different components required for different controls, for example in one MCC we can plan to install Direct on Line, Star Delta, Soft Start & Auto transformer Starters with relative ease and also ensure that all the overall controls and protections are in place. Our design system will also allow the design of intelligent Motor Control Centers which integrate electronic and programmable devices connected to a network such as DeviceNet and ProfiBus together with traditional electromechanical equipments.

PLC & INTELLIGENT DRIVE PANELS

Touch Panels: We offer a wide range of touch panels, which are available in the following specifications:

- 12.1" & 15" TFT display ; High color resolution TFT display ; Panel mountable structure ; Connectivity with k serial ports and 1 Ethernet port

  Programmable Logic Relays: We offer a range of intelligent, flexible, powerful, expandable and effective programmable logic relays with expandable inputs and outputs. These programmable logic relays have the capability of analog 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, 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
- Support system redundancy & client server architecture
- Connectivity to RDBMS
- Open system architecture
- Tag database compatibility with various application software like MS excel & word

AUTOMATION SYSTEMS.

Most manufacturing and building services today require some degree of automatic monitoring and control. We can supply complete process panels, utilizing the latest technology in PLC control and recording, along with console units and heavy duty electronic racking. Large computer systems require extensive networks and detailed engineering & planning. We are fully capable of understanding the needs and also offering solutions with associated cabling and structural design.

FEEDER PILLARS & WEATHER PROOF KIOSKS

Whenever Power needs to be controlled, monitored, distributed in outdoor applications like in a transformer yard or on the terrace of buildings or in group housing projects spread out over a large area, Feeder Pillar Panels and Outdoor Kiosks are used extensively for safety and protection. These can be supplied in powder coated CRCA Sheet Steel or in Stainless Steel as required. The Panels are manufactured to IP55 class of protection to ensure no ingress of water, dust or vermin with a canopy on top.

While the outside of the Panel is welded for strength & stability our design retain the modular advantage on the insides, enhancing the flexibility, safety and versatility of the interiors of the Panels.

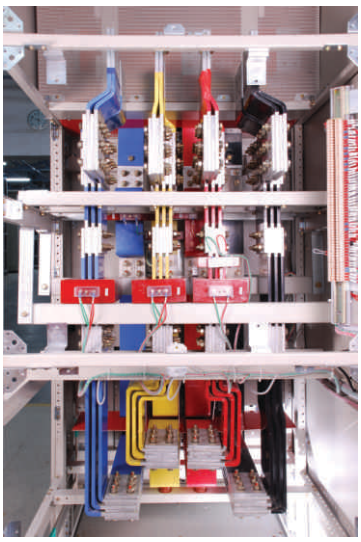
PANELS FOR HIGH RISE COMPLEXES

For high rise Apartment complexes & cluster of commercial establishments, we make panels with centralized and distributed power metering as per the requirement of the IPP or Utility company. Our design allows sealing of individual compartments for tamperfroof applications. Appropriate current limiting devices and generator power management devices are also made a part of our panels. This ensures that the main Transformer and the Generator (when on stand-by loads) is not burdened, thus protecting all the expensive equipments and cables from damages and losses. Our system allows us to integrate the DG panels with the supply panels, thus forming a unified look and control. Our DG panels can be Automatic changeover type with current limiting devices for each unit to ensure efficient use of power.

BUS DUCT SYSTEMS

A Busbar system formsthe backbone of any power distribution set-up. We have specialized equipments that enable us to design and fabricate these systems upto 8000A. The system is designed to withstand the mechanical and thermal stress existing during normal service as well as under fault conditions. The Busbars designed for top, bottom, back, front, side design basically giving the user complete flexibility in the X, Y plane or in the Z planes. We can also provide a 2 bar, 3 bar or even 4 bar configurations per phase depending on the need.

OUR VALUE ADD:



- Safety from precision CNC fabrication having no sharp corners & free from weld burrs.
- Speed in delivery facilitated as made from profiles from ready stocks, standardized partitions doors and accessories.
- Reliability thanks to a 100KA type tested design, standardized accessories and focused continual R&D.
- Flexibility in dimensions, compartments and forms of segregation. Can accommodate any make of switchgear & changes even at site possible.
- Value for money as design costs are not duplicated on account of standardization. The resultant repeatability renders the solution cost effective.

FEATHER'S IN OUR CAP:

Successfully carried out type tests at CPRI, Bangalore for:

Short Circuit Test for 100 KA for 1 sec. ; Temperature Rise Test upto 3200A ; Degree of Protection (IP) for IP 54 & 55.

ISO 9001-2000 for design, manufacture, service and supply of modular power switchboards & control panels since 2005.

Over 5,000 National & International customers including ABB, SIEMENS, AREVA, CGL, KIRLOSKAR, CATERPILLAR, KOEL,

CUSTOMER SEGMENTS:

- BUILDINGS : Software Tech Parks, Hotels, Hospitals, Institutions & High Rise Complexes.
- OEMs : Power Generation for DG Sync, Turbine Controls, Wind Mill, Mini Hydel plants & Bus Ducts
- INDUSTRY : Steel, Cement, Paper, Sugar, Automobile, Garments, Power, Pharma, etc.
- INFRASTRUCTURE : Airports, Railways, Metros, Ports & Mass Housing.

Complete in-house facilities from START to FINISH:

- Electrical Design → Mechanical Design → Procurement (ERP enabled) →
- Full Fabrication workshop (with CNC machines) → Pretreatment and Powder Coating (Automatic paint line) →
- Shell Assembly → Main Assembly (Hydraulic Bus Bar systems, Pneumatic assembly lines & Wiring) →
- Inspection → Full in-house Testing of Power & Motor Control Centers
- Packing → in-house Vacuum packing and sea worthy packing facilities

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