



MACPOWER ELECTRICALS

GROWTH WITH ENERGY



PANEL MANUFACTURING

ENGINEERING DRAWING SERVICES

INDUSTRIAL SERVICES

ABOUT US

MACPOWER ELECTRICALS (FORMALLY KNOWN AS DANEJ ENGINEERING), is Leading Manufacturing Company for LV Electrical and Automation Panel Board. We have 14+ years of Experience in multiple vertical for providing Automation & LV Switchboard solutions to all kinds of industries.

We strongly believe in partnering with our clients and add value to their business with our expertise. Our long-term association with India's esteemed organizations is a testimonial of the same.

core values

Innovation

Imagineering

Quality



LV SWITCHBOARD



POWER CONTROL CENTER

Power Control Center is used for distribution and control of various power sources used in industry. Normally Power Control Center is installed near power source hence the fault level is high. Panels are designed to withstand a fault level upto 70 KA for 1 sec. Bus bar system in Power Control Center is designed to suit the fault level as well as temperature rise upto 40°C above ambient. Ample space is provided for cable termination. Various protections viz short circuit; overload, earth fault, under voltage etc are provided to protect the source and the equipment.



MOTOR CONTROL CENTER

Motor Control Center is suitable for operation of motors ranging from 0.5HP to 500 HP ratings. Motor Control Center contains various types of starting viz. Direct on Line (DOL), Star-Delta, Soft starter etc. Local and remote operation facility, IMCC compatible to PLC/DCS based operation. Motor Control Center is properly ventilated in case of higher size of motor starter. Component layout is made so as to facilitate ease of operation and maintenance.



POWER DISTRIBUTION BOARD

Power Distribution Panels are used for distribution of power on down streams. They are required in case of high concentration of loads other than motor starters. Advantage of using Power Distribution Panel is to clear fault locally hence it does not affect Upstream Switchgear.

HEATER CONTROL PANEL

Heater Control Panel is designed to maintain Temperature of media which is in heater bundel unit, oven and furnace. Auto as well as manual mode is provided for OPERATION OF CONTROL PANEL. PID controller are used for switching of power device Various types of Heater bank are design depending on requiriement. Typically base load and control load systems are used. In case of oven application then base load system to switched power contactor. And Vaporizer, dowtherm and re-generation heater unit then control load system to fired thyristor power controller.



AUTOMATIC POWER FACTOR CORRECTION SYSTEMS

Automatic Power Factor Control Panel is designed to maintain power factor of plant close to unity. Auto as well as manual mode is provided for power factor control. Various types of capacitors are used depending on load conditions. Typically MPP, APP or Mixed dielectric types of capacitors are used. In case of non-linear loads like VFD, UPS, etc thyristorized switching with suitable filtering is used for controlling the power factor.



ROUTING TEST

- 1 Inspection of Assembly and Including wiring
- 2 Continuity Test
- 3 Insulation Resistance Test (Megger); 1000VDC
- 4 High Voltage Test By HV Tester; 2.5kV for 1min.,
- 5 Paint thickness by DFT Tester

TYPE TEST

- 1 Short circuit Test 6300A for 1 Sec up to 70kA.
In Approval by CPRI, Bhopal
- 2 Panel enclosure
ingress protection Level IP65
In Approval by CPRI, Bhopal

MACHINE TOOL

- 1 Hydraulic based Busbar Bending, Cutting & punching
- 2 Bench Drill machine
- 3 Clamp-on Meter
- 4 Digital Multimeter

#Achievements

PCC panels upto 3200A have been built & supplied with one, two and three incomers.

MCC panels fixed, single & double front with up to 90 feeders in a single panel have been built & supplied. drawout can supply too.

Specialists in Intelligent MCC panels using Siemens, L&T, Schneider, Multispan and Exceltech intelligent relays.

Semi intelligent MCC panels using Remote I/O stations for DCS / PLC.

Fixed type & drawout type enclosure constructions are offered with local fabrication, Rittal enclosures etc. as per the needs.

All reputed brands of switchgear like Siemens, Schneider, L&T, ABB & many others are offered in our panels.

Well engineered Busducts both indoor & outdoor type are offered. We can build busducts upto 6300A.

Panels are engineered for trouble free lifelong operation, easy to maintain as per IS norms.

Documentation supplied with panels is of international standard. Multiple references of panels exported to New Zealand and Begium.



INDUSTRY SECTOR & CLIENT

We have proved our Mattel through successful implementation of reliable, innovative and cost effective solutions, in diverse industry segments like...

- Chemical Industries
- CETP, STP and WTP
- Metal Heavy Industries
- Pharma Laboratories
- Textiles Industries
- Printing Industries
- Oil & Gas industries
- Food & Beverages Industries
- Commerical & Residential Complex
- IT Park
- Diamond Industries
- Process Industries
- Rice Mills
- Pharma Industries
- Furniture Industries
- Paper Industries
- Hospital
- OEM

Our Prestigious Client

- Larsen & Toubro Limited, ECC
- R N Laboratories Pvt. Ltd.,
- Samarpan Rice Mill
- Swastick Rice Industries
- Arkray Healthcate Pvt. Ltd.
- Indian Oil Corporation Ltd. (Sub Vendor)
- Asra Ispat Pvt. Ltd. (Metal)
- Laxmi Kapat Pvt. Ltd.
- Shiv Shakti Polyfilms Pvt. Ltd.
- Reliance Industries Ltd. (Sub Vendor)
- Raviraj Rice Industries
- Sneha Fashion Pvt. Ltd.
- Supreme Diamond Technology Pvt. Ltd.
- Kantilal Chunilal & Sons Appliances Pvt. Ltd.
- Luthra Group

CONTROL PANEL
24VAC DITRIBUTION
HEATER/BURNER COTRNOL
PUMP CONTROL
STREET LIGHT / HIGHMAST CONTROL

POWER PANEL
POWER CONTROL CENTER, up to 6300A; 415/690VAC
AMF/DG Synchronization Panels
MOTOR CONTROL CENTER
INTELLIGENT MOTOR CONTROL CENTER
AUTOMATIC POWER FACTOR CORRECTION
POWER DISTRIBUTION BOARD
MAIN LIGHTING DISTRIBUTION BOARD

AUTOMATION PANEL
VFD/DRIVE CONTROL
SOFT STARTER CONTROL
PLC AUTOMATION

MACPOWER ELECTRICALS

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