



aspire.  
ascertain.  
accomplish.



**aspire. ascertain. accomplish.**

**ADLEC SYSTEMS PRIVATE LIMITED**

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# About us

Adlec Systems Private Limited is one of the Premier brands for Custom Built Low Voltage Electrical Switchboards, with its principal facilities in Delhi. Since its inception in 1995, Adlec has emerged as a leading name in industrial electrical products and custom built switchboard solutions. Adlec manufactures its products under the most stringent quality systems complying with the International IEC standards and certified by CPRI for 35/50/65/70/80 and 100 kA.

Adlec strives to offer its customers, completely integrated solutions using innovative and quality products, combined with unrivaled services and reliability nationwide.



Adlec offers quality switchboard products and solutions to its discerning customers. Adlec's dossier at a glance:

- ISO 9001 certified infrastructure
- CPRI Tested
- 90,000 sq ft of shop floor area
- 14 product categories
- Supplies to over 19 industries
- 170 satisfied clients and
- More than 260 project sites



With the Vision to make Adlec the preferred brand for all electrical solutions, Adlec strives to be a world class company offering global solutions through strategic partnerships, quality products and exemplary services.





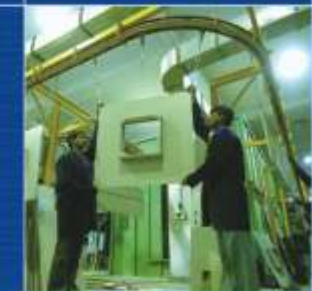


52 Station CNC Turret Punch Press

# Facilities

- CNC Punch Press
- Nibbling Machine
- Bending Machine
- Power Press 30 tonnes
- Paint Section
- Automated 9 tank pre-treatment shop
- Automated powder coating shop
- Dryers & Screw Filler
- Effluent Treatment Plant
- Drilling Machines Up to 6 mm & up to 16 mm
- Hydraulic Bus Bar Bending, Cutting & Punching M/c
- Bus Bar Polishing
- Bend Saw
- Shearing Machine 2.5 Mt

Nordson Reciprocator with Autogun



Fully Automated Powder Coating Shop



# Factory



Adlec has invested in qualified manpower with years of industrial experience and knowhow for implementing systems, new product development & design and customer service. With three factories covering 90,000 sq feet, over 300 skilled work force, state-of-the-art equipment and IP assets already in place, Adlec is now setting up a most modern 200,000 sq feet facility at Haryana.



9 Tank Fully Automatic Pre-treatment





# D Products

## Range

- 33 KV HT Panels
- 11 KV HT Panels
- Blokset LV Panels
- Power Control Centers
- Motor Control Centers
- Double Bus Bar Panels
- Control & Relay Panels
- Power Factor Correction Capacitor Panels
- Synchronizing Panel
- Control Desks & Mimic Panels
- Bus Ducts & Rising Mains
- PLC Panels & Automation Panels
- LT Capacitors (Matrix Brand)
- LT Current Transformers (Matrix Brand)



BLOKSET PANEL

## Features



- Busbar ratings up to 8000 Amperes
- All enclosures manufactured with 2 mm CRCA sheet steel
- Fully bolted standardized design fabricated with CNC machines
- Form 1 / 2 / 3a / 3b / 4a / 4b design, up to IP 52 protection
- CPRI tested for 35 / 50 / 65 / 70 / 80 / 100 kA for 1 second and for Temperature Rise
- Pre-treatment with Nine Tank process
- Painting in dust & vermin proof paint booths and ovens
- Non hygroscopic SMC bus bar supports for best mechanical & electrical strength for fault current withstand
- Standardized compartment sizes for bus bar chamber, cable alleys, feeders
- Bus Bars are insulated with heat shrinkable PVC sleeves
- Shrouded live parts with Acrylic / FRP sheets



PLC PANEL





# D Products

## Medium Voltage Panels

### APPLICATIONS

#### POWER DISTRIBUTION

- Distribution substation,
- Delivery substation,
- Secondary transmission substation

#### INDUSTRY

- Oil and gas,
- Chemical industry,
- Metallurgy,
- Car industry,
- Mining,
- Cement plants, etc.

#### INFRASTRUCTURES

- Airports,
- Ports,
- Water treatment, etc.



## 11 & 33 KV PANEL



### SALIENT FEATURES

Indoor, metal-enclosed switchgear designed for the MV section of HV/MV and MV/MV substations. Medium voltage equipment comprising cubicles with breaking devices, sensors, medium voltage connections and auxiliaries

- Complies with IEC 62271-200
- Metal-clad air-insulated switchboard
- Studied for medium voltage distribution
- Factory-tested for installations inside rooms
- Compartments segregated by means of metallic partitions openly connected to earth
- Limited use of insulating materials
- Complete with mechanical safety interlocks
- Structure made of CRCA sheet
- Putting into service, maintenance and service operations can be carried out from the front
- Complete set of apparatus: gas and vacuum circuit breakers, contactors and switch disconnectors
- Optional Earthing switch with full making capacity
- Design in conformance with highest class for minimum Loss of Service
- Continuity - 'LSC-2B with metallic partitions

# D Products

## Bus Bar Section

The heart of the switchboard is the bus bar system. Coupled with the use of high purity and high conductivity Aluminium and Copper, the safety features ensure superior performance and reliability.

#### Interleaved busbar system

- Improved Current Distribution
- Reduction in Electrodynamic forces and lower thermal stresses during the event of a fault
- Elimination of Equalisers
- Low Watt loss - direct saving in energy
- Lower temperature rise
- Higher insulation life

#### Totally insulated busbar system

- All power terminals are completely shrouded for higher safety

#### Moulded support system

- Fiberglass reinforced thermosetting plastic supports specially designed to increase creepage distance

#### Safety Features

- PVC sleeve and jointing shrouds
- Heat shrunk PVC sleeve in addition to large clearance in bus bar zone
- Click fir joint shrouds cover tap offs and joints on busbars
- Operator safety is ensured by distinct vertical earth bar
- Door earthing
- Door interlock with defeat facility

#### Maintenance Friendly Features

- Silver plated contact plate on droppers
- Nut retainer plate.





# D Products

## 11 KV PANEL

Busbar Compartment



CT & Cable Compartment



Metering & Internal Wiring



Breaker Compartment



Draw out PT & Trolley

### SPECIFICATIONS

Rated Voltage	Ur	KV rms	11	11
Rated Frequency / Phase	Fr	Hz	50/3	50/3
Rated Current	Ir	A rms	1250	2500
<b>Insulation Rated Voltage</b>				
Industrial Fz withstand Voltage (50Hz-1min)	Ud	KV rms	28	28
Lighting Impulse withstand Voltage (1.2/50ms)	Up	KV peak	66	66
Permissible Rated Short-time withstand Current	Ik	KA rms 3s	25	40
Electrodynamic Rated withstand	Ip	KA peak	75	75
Standard Protection Index	enclosure		IP54	IP54

**Per vertical: Size: (W)700mm x (H) 2175mm x (D)1800mm  
Weight approx: 1000kg**



# D Products

## 33 KV PANEL

Metering Compartment



Breaker Compartment



Shutter Assembly 33KV

Busbar Compartment



CT & Cable Compartment



### SPECIFICATIONS

Rated Voltage	Ur	KV rms	36	36
Rated Frequency / Phase	Fr	Hz	50/3	50/3
Rated Current	Ir	A rms	1250	2500
<b>Insulation Rated Voltage</b>				
Industrial Fz withstand Voltage (50Hz-1min)	Ud	KV rms	70	70
Lighting Impulse (1.2/50ms) withstand Voltage	Up	KV peak	170	170
Permissible Rated Short-time withstand Current	Ik	KA rms 3s	25	25
Electrodynamic Rated withstand	Ip	KA peak	65	65
Standard Protection Index	enclosure		IP54	IP54

**Per vertical:  
Stand alone panel size:  
(W)1000mm x (H)2500mm x (D)3000mm  
Multi panel size: (W)1000mm x (H)2500mm x (D)2500mm  
Weight approx: 1500kg**







## Industry

Adlec products are successfully installed in core industrial applications ranging from Automobiles, Sugar, Paper, Film & Polyester, Steel and Micro Chips

- Denso
- Bajaj Hindustan
- Jindal
- TISCO
- LG Electronics
- Hotline
- Ranbaxy
- Apollo Tyres
- SRF Polymers
- ST Micro Electronics
- Bhushan Steel
- Mawana Sugar



# Segments

## Buildings: Commercial & Residential

Adlec has been delivering products and solutions to some of the most renowned builders, both for Commercial and Residential applications. The list of products entails PCC, MCC, Synchronizing panels, Bus Ducts, Distribution & Meter boards. The application covers Hotels, Malls and Townships.

### Hotels

- Hyatt
- ITC
- Radisson
- Leela
- Marriott
- Oberoi

### Builders

- DLF
- Unitech
- Vatika
- Uppals
- TDI
- MGF







# Our approvers

Adlec has been supplying products and solutions to some of the most reputed names in the various segments that are addressed. This market reach is due to the fact that Adlec is an approved brand with some of the largest Electrical Consulting houses. Our relationship with the approvers goes beyond the standard offer, as we work in tandem with these Consultants during the design stage of the project, working out the detailed specifications, scope, product selection for the various applications and budgeting.

- Abett Consulting Engineers
- Adrianse India Pvt. Ltd.
- Ajay Kumar Associates
- Ampower Consultancy Services
- WS Atkins (India) Pvt. Ltd.
- B Mathur & Associates
- Becon Engineers (P) Ltd.
- C R Narayana Rao
- C P Kukreja Associates pvt. Ltd.
- C S Sagoo
- Cadtech Consultants Pvt. Ltd.
- CB Currie & Brown
- CB Richard Ellis South Asia Pvt. Ltd.
- CPM Engineers & Consultants
- Cushman & Wakefield (India) Pvt. Ltd.
- Dalal Mott MacDonald
- Dimension Engineering Consultancy
- Educational Consultants
- Electrical Consulting Engineers
- Electro Consultants
- Electro Mechanical Engg. Services
- Enersave Consultants Pvt. Ltd.
- Engineering Design & Consulting Orgn
- ES Elecsolve Consultants Pvt. Ltd.
- Escon Engineering Services
- Fairwood Consultants Pvt. Ltd.
- Feedback Turnkey Engineers
- G R Electrical Consultants
- Gherzi Eastern Limited
- Gian P Mathur & Associates Pvt. Ltd.
- Holtec Consultancy (P) Ltd.
- Hospital Services Consultancy Corpn.
- Interics Design Consultants
- Jacob H & G Pvt. Ltd.
- Jaiswal & Associates
- Jones Lang La Salle
- Kanwar Krishan Associates
- Kothari Associates Pvt. Ltd.
- Krim Engineering Services Pvt. Ltd.
- Lirio Lopez
- M N Dastur & Company Ltd.
- Mecon Ltd
- Meinhardt
- Nirman Engineering Consulting Engrs
- Optimal Designs Consulting Engrs
- Poet Consultants Pvt. Ltd.
- Potential Services Consultants (P) Ltd.
- Predominant Engineers & Contractors
- R Singh & Associates (P) Ltd.
- RITES Ltd.
- RSP Architects Planners & Engineers
- Ru-Tech Services Inc.
- Sanelac Consultants Pvt. Ltd.
- Singh & Associates Consultancy Engrs
- S.M. Engineers
- S N Consultants
- S P C Associates
- Spectral Services Consultants Pvt. Ltd.
- Star Consulting Engineers
- Sterling India Consulting Engineers
- STUP Consultants Pvt. Ltd.
- Sunil Nayyar & Associates
- T S Sethi and Associates
- Tata Consulting Engineers Ltd.
- TEC Consulting Engineers Ltd.
- Udyan Chaudhari & Associates Pvt. Ltd.
- V S Kukreja & Associates Pvt. Ltd.
- Varun Associates
- Vastukriti
- Vasunidhi
- WBG Consulting Engineers
- Y K Jain Consulting Engineers

# Segments

## Infrastructure

Adlec is actively contributing to the stupendous growth of the infrastructure of India by way of delivering quality solutions to the most critical applications. Customer applications range from Airports, Metro Rail, Ports, Power Plants and National Highway projects.

- Delhi Metro Rail Corporation
- NDPL
- GMR International Airport
- Naphtha Jhakri Power
- Chamera Hydro Power
- Gharziano Hydrel Project
- Baglihar Hydro Electric

## Information Technology and Telecom

Adlec products & solutions are successfully installed in various applications ranging from Call Centres, Data Centres, Telecom installations, Software Development Centres, etc.

- Hughes Escorts Communications
- Pacific Cyber Works
- Escotel Telecom
- SSI Software
- Bharti Airtel Limited
- IBM India
- Comsat Max
- Tata Teleservices
- Nucleus Software

