



**BILAL SWITCHGEAR ENGINEERING
(PVT.) LIMITED**

COMPANY PROFILE

WE DELIVER EXCELLENCE



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www.bilaleng.com



The future of manufacturing is in technology. The next generation of manufacturing champions will come from those companies that use brain power, not labor, to drive their innovations.

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Infrastructure



Industry



Residences & Buildings



Telecom and IT



Power Distribution



Power Generation

Introduction

(Formerly known as Bilal Engineering Company) was established in 1978 and took the start with the manufacturing of Power Distribution Boards and Light Distribution Boards. After a successful start, the Company started manufacturing of Low Tension Switchgear in 1982. Bilal Switchgear Engineering is equipped with the most modern manufacturing facilities i.e CNC and Laser Cutting Machines along with a team of highly qualified and experienced engineers who supervise all stages of design, production, and quality control. BILAL® products and systems meet the national and international standards like IEC, BS & ISO: 9001:2015. To verify and ensure the quality, all manufactured equipment are strictly inspected by our Quality Assurance Department. All this has brought BILAL® in line with multinational switchgear manufacturing companies in Pakistan. **Bilal Switchgear Engineering also provides turnkey services for industrial, building, and infrastructure projects in Pakistan.**

The company is privileged to represent many international brands including **ABB, MEGABARRE, GBE**, etc and the objective behind these developments is to provide one window solution to our esteemed customers. We have left back a long list of satisfied clients hitherto.

Besides Electrical Switchgear System, we are also one the biggest manufacturer of Industrial Cooling and Ventilation System.

Our Mission

Our mission is to provide innovative technology, reliable, sustainable, and integrated solutions & services for all the electrification needs of our valued clients from the Industry, Buildings, and Infrastructure market segments.

LV Type Tested Switchgear

System pro E power



- Fully type tested for Conformance to IEC-61439 1 &2
- Rated Voltage: up to 1000V AC — 1500V DC
- Rated Current: up to 6300A
- IP Protection: IP 30 to IP 65
- Form of Segregation: Form-1 to Form-4b
- Fixed, Plug-in, Withdrawable
- Transparent Glass or Blind Doors

Supplied with ABB Brand Name with technology transfer from ABB Italy to Bilal Switchgear Engineering (Pvt.) Limited, assembled under license by ABB.

LV Switchgear Panels

Conventional Design



We manufacture low Voltage Switchgear Cubicles from 400A to 6300 A according to IEC-61439-1&2. All measuring and recording instruments like Ampere Meter, Volt Meter, Energy Meter etc. are mounted on the front door in Semi Finished Style for easy accessibility for checking of the instrument on the inner side of the door.

Main LT panels, Sub Main Distribution Boards, Motor Control Centers, PFI plants and Final Distribution Boards are equipped with high Quality ABB make major components. Design & Assembly is customized to diversified end use application.

Medium Voltage Panels

Conventional Design



- Medium voltage switchgears are manufactured from 6.6 kV, 24 kV and 33 kV.
- The panels design incorporates all necessary interlocks to safeguard the equipment as well as operating staff.
- All protection relays, measuring and protection instruments are mounted in the instrument and relay compartment for easy accessibility.
- The circuit breaker trolley (VCB) contains service position, test / isolated positions and with drawn position, In-service position, automatic shutter system is provided for protection against the live parts.

MV Type Tested Switchgear

UniSafe 2.0



- Fully type tested as per IEC 62271-200, internal Arc Classified IAC AFLR.
- Loss of service continuity LSC2B and PM metallic partition.
- Wide range of applications, Vacuum or SF6 Circuit breakers as well as Vacuum contactors.
- Ideal solution for Industry, Utilities and Infrastructure projects. Panel is only 600 mm wide up to 1250A.
- Fully tested IP4X as per International IP classification.
- Equipped with Exhaust duct and Chimney based solution which can route the flames outside building in case of an Arc Fault.

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Ring Main Units

safe ring / safe plus



- Extendable Ring Main Unit - SafeRing
- Compact Switchgear - SafePlus
- System Voltages from 12 to 24kV
- Switch, switch-Fuse & Circuit Breaker (VCB) options
- Internal Arc Classification IAC AFLR up to 25KA/1s
- SF6 Gas-Insulated for excellent performance
- Fully sealed for lifetime
- Advance and Flexible, Canopy Option for Outdoor service
- High Reliability and Safety for Secondary distribution
- Designed and tested according to IEC-62271

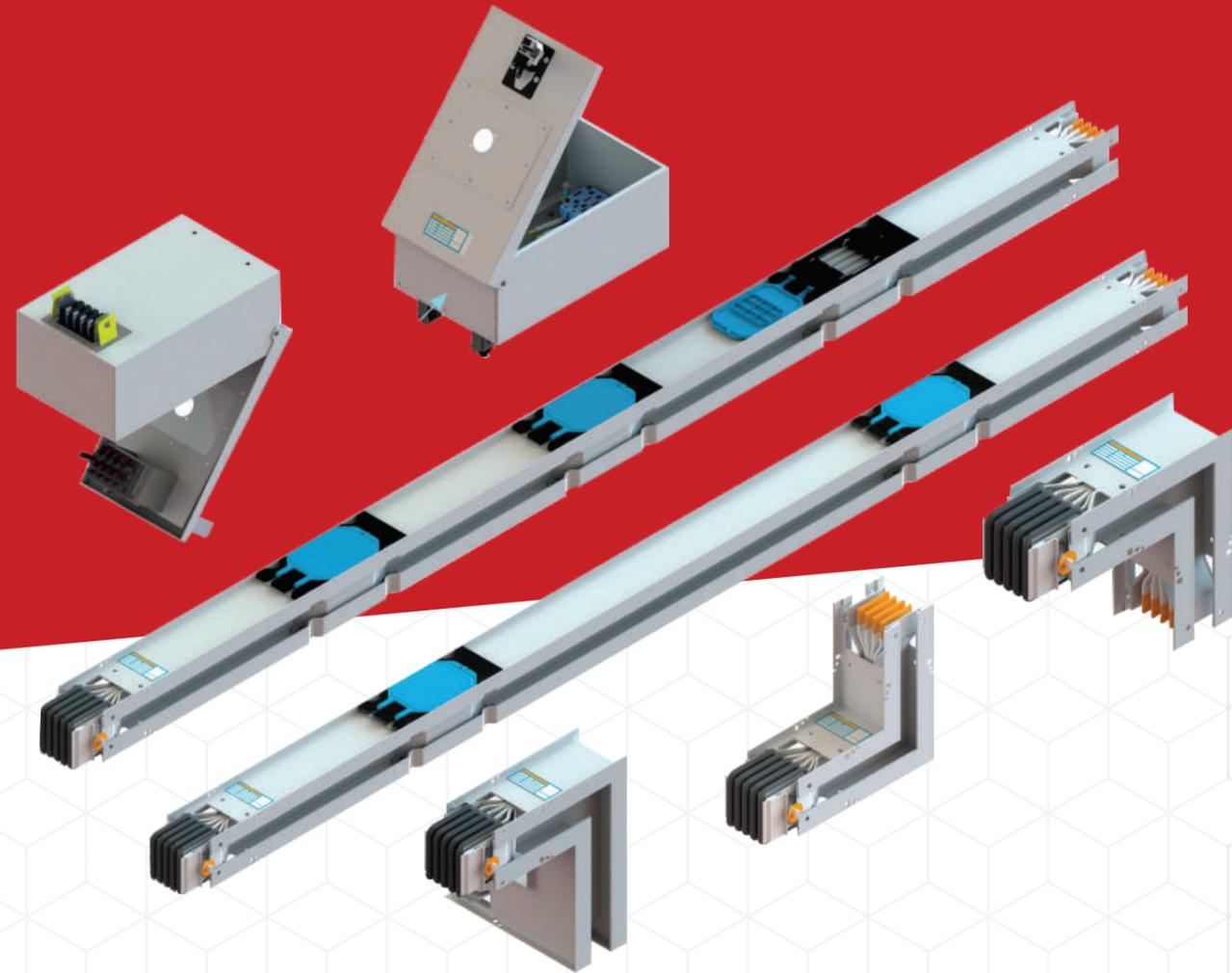
Dry Type Transformers



- Cast Resin or Vacuum Impregnated
- Rating up to 30 MVA
- Voltage Level up to 52KV
- Copper OR Aluminum winding
- Guaranteed zero tolerance lower losses by Eco-design
- Type tested by CESI according to latest standards
- Tailored for all applications

Authorized Sole Distributor for Pakistan & Afghanistan by GBE (Italy)a

Busbar Trunking System



- Maintenance free monoblock joint
- IP55 protection degree without any additional accessories and upto IP66 can be offered
- Thermal class (150°C)
- Fire resistant barrier can be provided
- Painted Extruded Aluminum Alloy Casing with high mechanical strength characteristics
- Copper & Aluminum Conductors
- Type tested by LOVAG according to IEC 61439-1/6

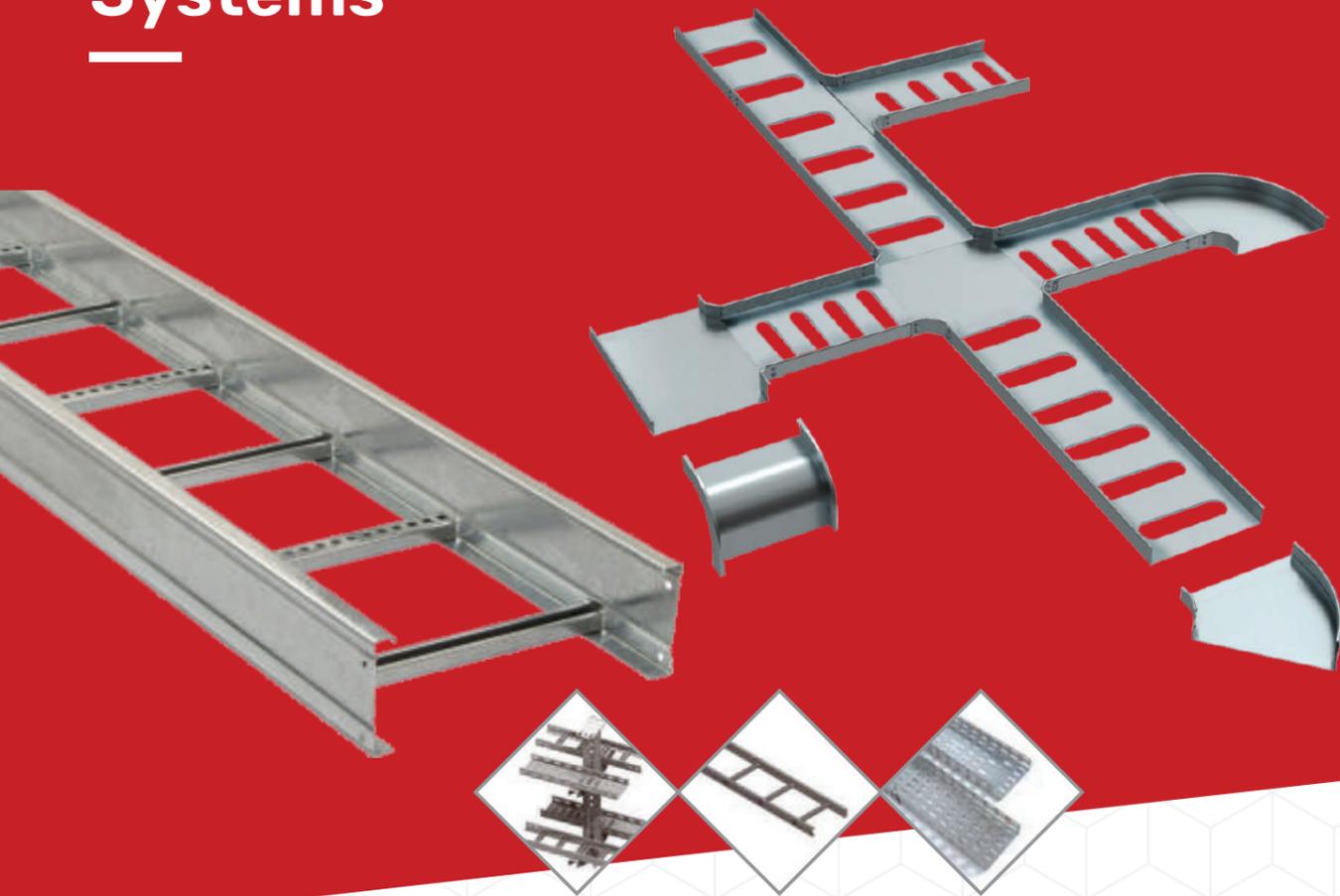
Authorized Sole Distributor for Pakistan & Afghanistan by MEGABARRE (Italy)

Busbar Trunking System WavePro



- Sandwich construction with Class B Insulation 130°C
- Aluminum & Copper Conductors
- Aluminum Housing
- Icw from 30KA to 120KA
- IP66 Feeder, IP54 Plugin
- Rated Current 250A to 5000A
- KEMA-KEUR certified to IEC 61439-1/6

Cable Tray and Cable Ladder Systems



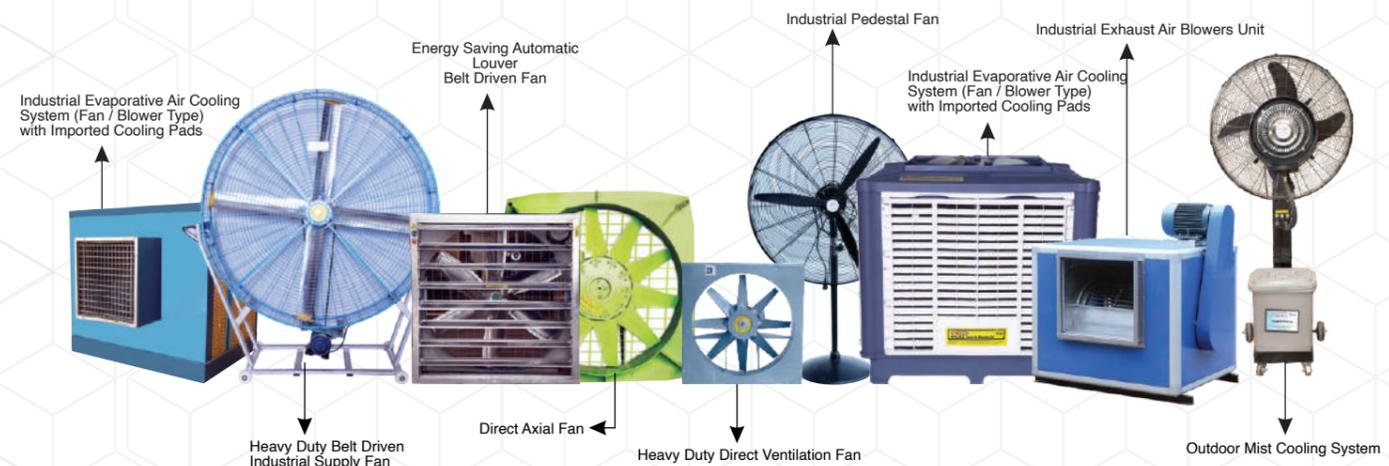
BILAL® manufactures cable trays and cable ladders as per client requirement in different sizes, gauges, and depths. Cable trays are more appropriate where a great number of small cables are used, i.e. small electric cable, computer network cable, etc. Whereas cable ladders are more appropriate for power cables.

- Types:**
- GI
 - MS Powder coated
 - Stainless Steel
 - MS Hot Dip Galvanized



Heavy Duty Exhaust Supply Air Fans & Evaporative Air Cooling Systems

Bilal Switchgear Engineering (Pvt.) Limited is one of the leading manufacturer of ventilation and evaporative cooling systems, designed and built with advanced technology.





Turnkey Project Services

Best in class Turnkey services provider for Electrification of Industrial, Building & Infrastructure Projects in Pakistan

- LV & MV Power Cables laying & termination
- LV & MV Gensets
- MV/LV Substations
- Cable Tray & Cable Ladder Systems
- Lighting & Small Power Conducting, Wiring & Fixtures
- Earthing & Lighting protection systems
- CCTV, Access Control & Security systems
- Smart Power management solutions for tunnels
- Oil & Dry Type Transformers
- UPS & Central Battery systems
- Busway systems
- Fire Alarm & Suppression Systems
- SCADA & Building Management Systems
- KNX/DALI based lighting Control Systems
- Power Quality Solutions

Project Operations

- Prequalification & Bidding
- Design & Engineering
- Supply Chain management
- Contracts Management
- Project Planning & Scheduling
- Site Management & Coordination
- Progress review with Client & Consultant
- Quality Assurance & HSE Compliance
- Testing & Commissioning
- Contracts Management

Buildings & Shopping Malls

Metro Cash & Carry Multan



Client: Habib Metro

Services Provided: Supply, Installation, Testing & Commissioning of MV SG, LV SG, Cable Tray, BT, Transformers, Power Cables, Earthing, Generator Synch Panels, CCTV, Fire alarm, Access Control, Public Address system, FM200, Lightning Protection system, UPS, External & Internal Lighting

Centaurus Mall Islamabad

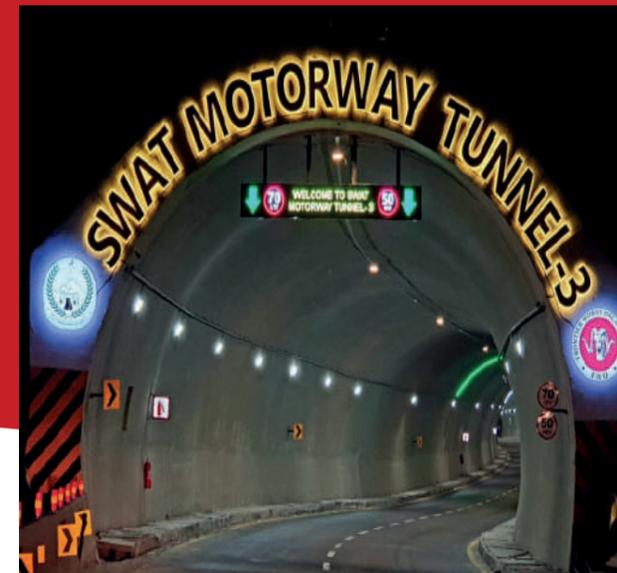


Client: Pak Gulf Construction

Services Provided: Supply, Installation, Testing & Commissioning of MV SG, LV SG, MV Generator Synch Panels

Infrastructure Projects

SWAT MOTORWAY TUNNELS



Client: FWO Pakistan

Services Provided: Supply, Installation, Testing & Commissioning of MV Genset, MV SG, LV SG, Cable Tray, Dry type transformers, Power Cables, Intelligent Tunnel Ventilation system, SCADA, CCTV, UPS, Tunnel Lightning system



Goldcrest Mall & Residency Lahore



Client: Giga Goldcrest

Services provided: Supply, Installation, Testing & Commissioning of MV SG, LV SG, Cable Tray, Busway System, Dry type Transformers

Penta Square DHA Lahore



Client: DHA Lahore

CMH Lahore



Client: Pakistan Armed Forces

Services provided: Supply, Installation, Testing & Commissioning of LV SG, MV SG, Busway system, Cable Tray, Earthing

PKLI Lahore



Industrial Projects

SAZGAR Motors

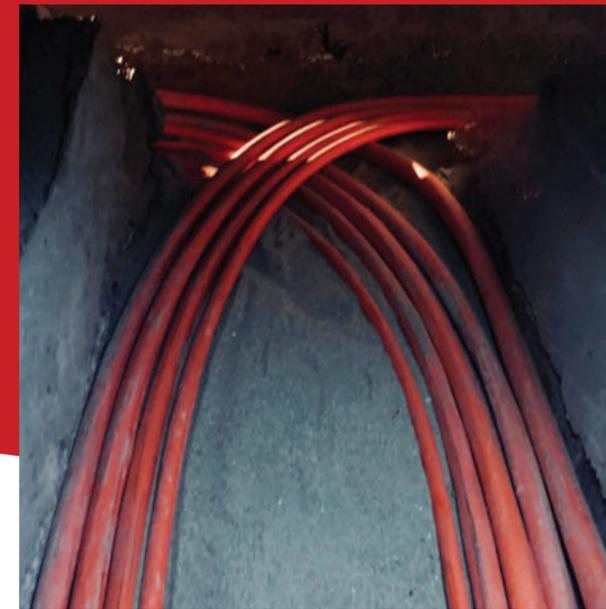


Client: SAZGAR Autos

Services Provided: Supply, Installation, Testing & Commissioning of MV SG, LV SG, Cable Tray, sandwich Busway system

Areas of Expertise

Cable Laying & Termination



Cable Tray & Cable Ladder Systems

DIN Textile Ltd



Client: DIN group

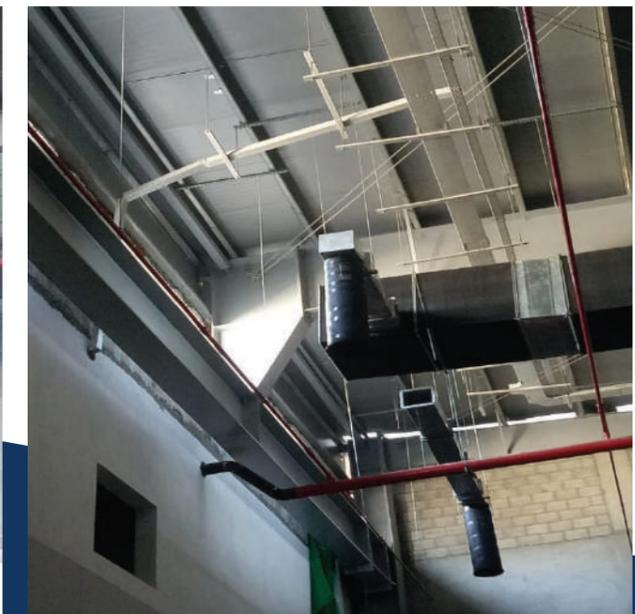
Services Provided: Supply, Installation, Testing & Commissioning of MV Synch panels, MV SG, LV SG, Cable Tray, Dry type transformers, UPS, Power Cables laying

US Dynamo Lahore



Client: US apparel group

Services Provided: Supply, Installation, Testing & Commissioning of MV SG, LV SG, Cable Tray, Dry type transformers, Power Cables laying, Busway system



Areas of Expertise

MV/LV Generator sets



Areas of Expertise

CCTV & Security Systems



MV/LV Substation



Conduiting, wiring & Lighting Fixtures



Areas of expertise

Oil & Dry Type Transformers

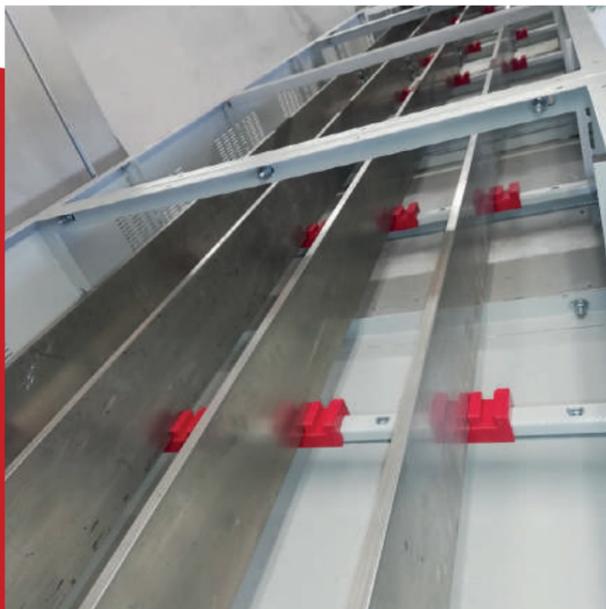


Areas of expertise

Fire Alarm system



Busway System Installation



Testing & commissioning



Our Clients

