MANGAL
ENGINEERS AND CONSULTANTS

MANUFACTURERS OF:
- Servo Stabilizers
- Distribution Transformers
- Rectifiers
- Regulators
- Special Purpose Transformers
- Special Purpose Electrical Supplies
- Electric Panels
PRODUCT RANGE

- Automatic Voltage Controller : upto 5 MVA
  - Servo Stabilizer - 3 Phase / 1 Phase
  - H.T. 2 in 1 Transformer cum Stabilizer
  - H.T. Automatic Voltage Stabilizer

- Transformers : upto 5 MVA
  - Distribution Transformers
  - Power Transformers
  - Transformers with OLTC
  - Furnace Transformers
  - Earthing Transformers
  - Isolation / Ultra Isolation Transformers
  - Variable Transformers
  - Step up / Step down Transformers
  - Dry Type Transformers
  - Balancing Transformers
  - Butt Welding Transformers
  - Dual Seam Welding Transformers
  - Special Purpose Transformers

- Rectifiers : 0 - 1000 Volts, 0 - 40000 Amps.
  - DC Rectifiers
  - Plating Rectifiers
  - Furnace Rectifiers
  - Refining Rectifiers
  - Electrolysis Rectifiers
  - Anodizing Rectifiers
  - Welding Rectifiers

- Electrical Supplies
  - ESR Supplies
  - H.T. / L.T. Supplies
  - D.C. Power Supplies
  - 1Phase/ 2 Phase / 3 Phase Variable Supplies
  - Motorized Voltage Regulators
  - Electrical Drives

- Panels
  - H.T. / L.T. Panels
  - APFC Panels
  - Distribution Panels
  - MCC Panels
  - PCC Panels

We also Undertake Service, Repair and Overhauling of the above said Machines
MANGAL ENGINEERS AND CONSULTANTS

AUTOMATIC VOLTAGE CONTROLLER

Applications
- Cement Plants
- Flour Mills
- Engineering Units
- Hospitals
- Tea Estates
- Pharmaceutical Units
- Cold Storages
- Rolling Mills
- Nursing Homes
- Textiles Mills
- Paper Mills
- Rice Shellers
- Rubber Industries
- Clubs
- Food Processing Units
- Oil & Vanaspati Plants
- High Rise Buildings
- Tube Mills
- Footwear & Leather Units
- Distilleries & Beverages
- Hotels & Restaurants
- Glass Industries
- Chemical Industries
- Testing and Research Stations

Advantages
- Reduction in Breakdown of Electrical Equipments
- Reduction in MDI
- Energy Saving
- Improvement in Power Factor
- Uniform Quality of End Product
- Onload Stepless voltage variation
- Long Service Life
- High Mechanical Strength
- High Efficiency & Minimum Losses
- No Wave Form Distortion
- 80% Depreciation as per Income Tax Act.

Servo Stabilizer: Upto 5000 KVA

Inner view of Stabilizer

AVC (Unbalanced Type)

Inner View of Unbalanced Stabilizer

*We manufacture machines as per customer’s requirements
**HT 2 in 1 TRANSFORMER WITH STABILIZER**

It is a very altogether different product basically a combination of standard Distribution Transformer and LT Automatic Voltage Regulator. The standard Transformer with OLTC can correct limited Voltage variation in certain steps where as Built-in operates steplessly monitoring the output voltage continuously. The incoming fluctuating H.T. supply is initially stabilized and then fed to the stepdown transformer and thereby the L.T. output is maintained with in ±1% accuracy. 

It has the following advantages:

- **Space Saving**
- **Reduced Installation Cost**
- **More Efficiency**
- **Reduction in Electricity Bill**

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**SPECIAL PURPOSE SUPPLIES**

**ESR Supply:** ESR (Electro Slag Remelting) Furnace DC Supply: For the purification of Steels and Special Alloys this furnace is equipped with DC Power supply to control the process. We manufacture this Power supply to be attached with ESR Furnace Unit.

**Advantages:**
- Homogeneous Product
- Good Surface Quality
- Controllable Process
- Less Cost

**Applications:**
- Tool and Die Steel
- Stainless Steel
- Scrap Remelting
- Titanium Alloys
- Super Alloys
- Large Forging Ingot Manufacturers
**DISTRIBUTION & POWER TRANSFORMER**

- **CAPACITY**: UPTO 5000 KVA
- **6.6 / 11 / 22 / 33 / 66 KV CLASS**
- **WINDING**: COPPER WOUND

**2 Years Guarantee**

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**Standard Fittings**

- Rating & Diagram Plate
- Earthing Terminal
- Lifting Lugs for Transformer
- Bottom Drain & Filter Valve
- Top Filter Valve With Plug
- Conservator Tank
- Oil Filling Hole With Cap
- Air Release Valve
- Thermometer Pocket
- Silicagel Breather
- Explosion Vent (Pressure Relief Valve)
- Neutral Brought Out Terminal
- Bi-directional Roller
- Oil Level Indicator Normal

**Above 100 KVA**
- Off Load Tap Changer (0, ±2.5%, ±5%)

**Above 500 KVA**
- Dial Type Thermometer
- L.V. Terminal Box

**Above 630 KVA**
- Lifting Lugs for Top Cover
- Inspection Cover

**Above 750 KVA**
- Double Float Buchholz Relay With Alarm & Trip Contacts
- Dial Type Thermometer With Alarm Contact
- Marshalling Box With Complete Wiring
- Higher Capacity (On Demand)
- Magnetic Oil Level Gauge With Low Level Alarm Contact
- H.V. Terminal Box
- Jacking Pad
- On Load Tap Changer with RTCC Panel
RECTIFIERS

APPLICATIONS
- Electroplating
- Etching
- Anodising
- Electrolysis
- Hydrogenation
- Electro Forming
- D.C. Drives
- Copper, Aluminum, Zinc Refining
- Heating Furnace, Magnetization
- Electrochemical Processes
- Ionization
- Battery Chargers
- Traction Power Supplies
- D.C. Welding Rectifier

5 Years Guarantee

Inner view of Rectifier
Range: 0 to 500 Volts DC
0 to 20,000 Amps

REVERSE POLARITY RECTIFIER

Capacity: 12V - 6000 amps

Inner view
Control Panel
MANGAL ENGINEERS AND CONSULTANTS

Stabilizer / AVC For Domestic & Commercial Application

Furnace Transformer

Salt Bath Furnace Transformer

Isolation / Dry Type Transformer

PANELS
Power Distribution Panel (H.T. & L.T. Panels)

Main LT Panel

Internal View

Outer View

1 Year Guarantee

APFC PANEL
Sales & Service Network

Punjab / Haryana / J & K - Ludhiana
NCR / Uttar Pradesh - New Delhi
Himachal / Chandigarh / Haryana - Panchkula
Uttarakhand - Rudrapur
Bihar / Nepal - Raxaul
Gujarat - Ahmedabad
Andhra Pradesh / Tamilnadu - Hyderabad
Karnataka - Bangalore
Maharashtra / Goa - Mumbai
North Eastern States - Guwahati
Madhya Pradesh / Chattisgarh - Katni / Bhopal
Rajasthan - Jaipur
Orrisa - Bhubaneswar / Cuttack
Nepal - Kathmandu

We also Offer

Electrical Consultancy Services
Energy Audit
Electrical Safety Audit

MANGAL ENGINEERS AND CONSULTANTS
B-XXX 2185/A/83/2, Sua Road, Vill. Gobindgarh, P.O. Jugiana, Ludhiana - 141 017 (Pb.) INDIA
Tel. : 093167-49700 Mobile : 098146-84091, 093169-49700
E-mail : kamalmangal@rediffmail.com
Website : www.mangalengineers.com www.mangalengineers.co.in