



Celebrating 10th Year of Serving the Nation



R.K. ENGINEERING CORPORATION

Passion for Engineering Solutions



- EPC Projects ◀
- Electrical Panels ◀
- Chemical Earthing ◀
- Cable Tray ◀
- Bus Duct ◀
- Gears & Forklift ◀
- Energy Solutions ◀
- Plant Automation ◀
- Cleaning Equipments ◀
- Smart Light Solutions ◀
- Relay Testing & Retrofitting ◀
- Power Transmission & Distribution ◀



Founded by Shri Rajendra Shukla in 2011, R.K. Group which provides a full range of products and services related to cement, steel, power and similar manufacturing industries. We scale our performance with our credibility and trust we win through our services. We remain inspired by our vision for innovation to fulfill our customer needs. We offer state-of-the-art solutions and customized products to the industry. R.K. bears "A" class contract licence in electrical services.

Customer satisfaction is our prime objective. We ensure the best quality products and services are timely delivered to customers at reasonable price.

We put efforts towards

- ▮ Visiting our customer and identifying requirements to improve their performance
- ▮ Providing quality approved products at competitive price with timely deliveries
- ▮ Solving problems with competence, accuracy and speed
- ▮ Ensuring total customer satisfaction
- ▮ Providing quality services that meets the expectations of our esteemed customers
- ▮ Building an efficient and effective team of power system experts using state of the art IT tools, infrastructure and innovative approaches



Corporate Mission

To build long term relationships with our customers and clients and provide exceptional customer services by pursuing business through innovation and advanced technology.



Our Vision

To be a leading and preferred service provider for electrical Power System Conceptual Design, System Study and Solutions in the world by targeting beyond Customers expectation and satisfaction.



Core Values

We believe in treating our customers with respect and faith. We grow through creativity, invention and innovation. We integrate honesty, integrity and business ethics into all aspects of our business functioning.



Quality

We believe in providing quality products at competitive price & state-of-the-art commissioning of our product at customer's choice.



Our Team consists of highly experienced & qualified professionals having deep adherence to quality management and commitment.

We serve industrial end-users in various folds.

We are deeply concerned with energy conservation and world wide dearth of energy. We shoulder industry in India with our energy efficient equipments and systems.

- | Relay Testing, Retrofitting & Commissioning
- | Switchyard Installation & Commissioning
- | Energy Management System
- | Plant & Process Automation
- | Harmonic Solutions
- | Lighting Retrofit with LED
- | Transmission & Distribution
- | Energy Audit Facility
- | Solar Power Generation System
- | Power Factor Solutions

Our Services, Supervision & Installation

- | Panel Installation
- | LUG & Glanding Work
- | High Mast and Pole Installation
- | Application Engineering & System designing.
- | Crane Retrofitting.
- | HT & LT Breakers (Servicing, Maintenance & Retrofitting)
- | Pre-sales and post-sales customer support.
- | Annual maintenance contract (AMC).
- | Power Quality Management.
- | Power Factor Testing
- | DC & AC circuit Test
- | Transformer and Circuit Breaker Testing
- | CT Saturation, Ratio, Polarity and Insulation Testing
- | Dynamic Contact Resistance Measurement (DCRM) Test
- | Control Cable Laying & Termination
- | Earthing Installation
- | EPC Project
- | Drive installation, Commissioning & Repairing.
- | DC to AC conversation.
- | Emergency service back up.
- | Training to the Customer.
- | Battery backup system.
- | Tan Delta Test kit
- | Install SCADA & EMS Systems



RK INFRAA



ELECTRICAL PANEL MANUFACTURING DIVISION

R.K. Infraa a venture of R.K. Group dedicatedly produces exclusive products to the level of ultra advance technology. It has got state of art manufacturing plant and lab for full proof testing systems. The lead products of R.K. Infraa are 1. Electrical panel 2. Bus duct 3. Cable tray 4. Advance chemical Earthing

I. Electrical panel

- VFD & PLC Panels
- PCC & MCC Panels
- Control and Relay Panels
- Main Distribution Board (MDB)
- Control Desk
- Automatic Power Factor Control (APFC) Panels
- AMF Panels
- Lighting Distribution (LDB) Panels
- Feeder Pillar Panels
- Synchronizing Panels
- DG Panels
- Auto & Load Sharing Panels
- Meter Board & Junction Box



Fig - 01



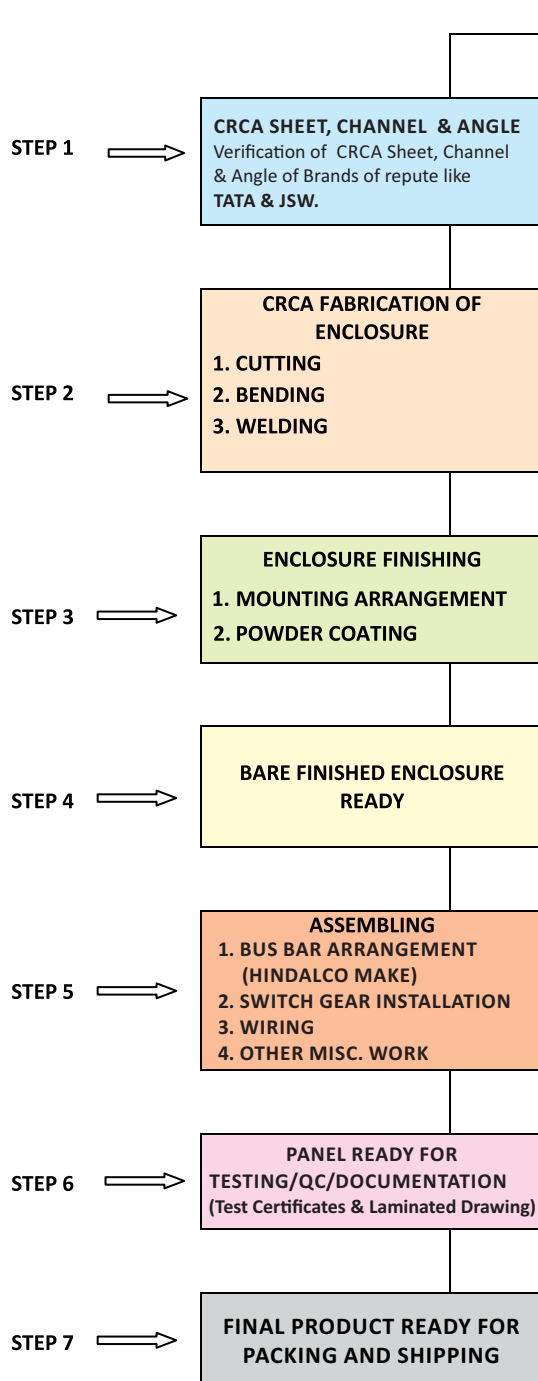
RK INFRAA



ELECTRICAL PANEL MANUFACTURING PROCESS & QC

Design and Engineering Department

Our Design and Engineering department is well equipped with Computer Aided Design (CAD) systems and drafting facilities for accurate and quick preparation of design & execution.



1. VFD
2. WIRES & CABLES
3. SWITCHGEARS
4. OTHER MISC. ITEMS

Quality Control Procedure :

1. Checking all components as per GA, control and power diagram
2. Checking all screw points for stability
3. Verifying all wiring with drawing of each connection
4. Testing Continuity for control and power wiring check as per ferrule
5. Verifying the tightness of bus bar
6. Proper fixing of bakelite and epoxy sheet used for partition of bus chamber cut-outs
7. Proper acrylic sheet shrouding over live part exposure
8. Ensuring the provision of partitions
9. Checking Phase sequence & Polarity
10. Checking of Waviness doors etc
11. Checking Adequate minimum required clearance between 2 phases and phase to earth
12. Checking & Ensuring Earth continuity / earthing system
13. Checking overall paint work, door locking device, door gasket, door hinges, door cut-out holes
14. Checking Base angle / channel and I-bolt
15. In QC Report Maintain all documents

Packing and Shipping -

After Quality control procedure all panels are packed and handled properly for the shipping. We use special static-resistant bubble wrap and wooden box and fill all the empty space with firmly packed padding to prevent shifting inside the box to ensure the products is delivered free and safely at the site.



RK INFRAA



CABLE TRAY & LT & HT BUS DUCT

Cable Management System

Introduction

RK Infraa is one of leading manufacturer of pre-galvanized (GI) and powder coated cable tray, we manufacturer perforated and ladder trays. we also provide all Accessories of cable tray.

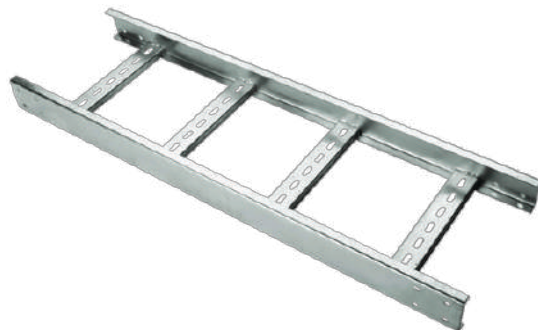
Perforated Trays

Range of Width	50 mm to 600 mm
Range of Span	2.5 m
Sheet Thickness	1mm to 2.5 mm
Finish Types	Galvanized & Powder Coating
Range of Height	50mm to 150mm

Type of Cable Tray -



Perforated



Ladder

BUS DUCT

LT & HT - We manufacture highly efficient HT/LT Bus Duct with a capacity up to 33 KV. We offered both indoor and outdoor construction with IP42/65 degree of protection. The type of busduct are offered in aluminium and copper.

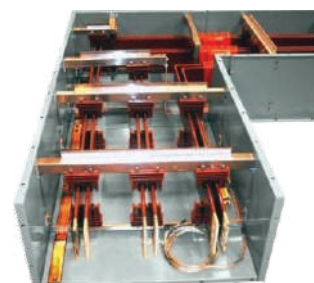


Fig - 01



RK
ECO



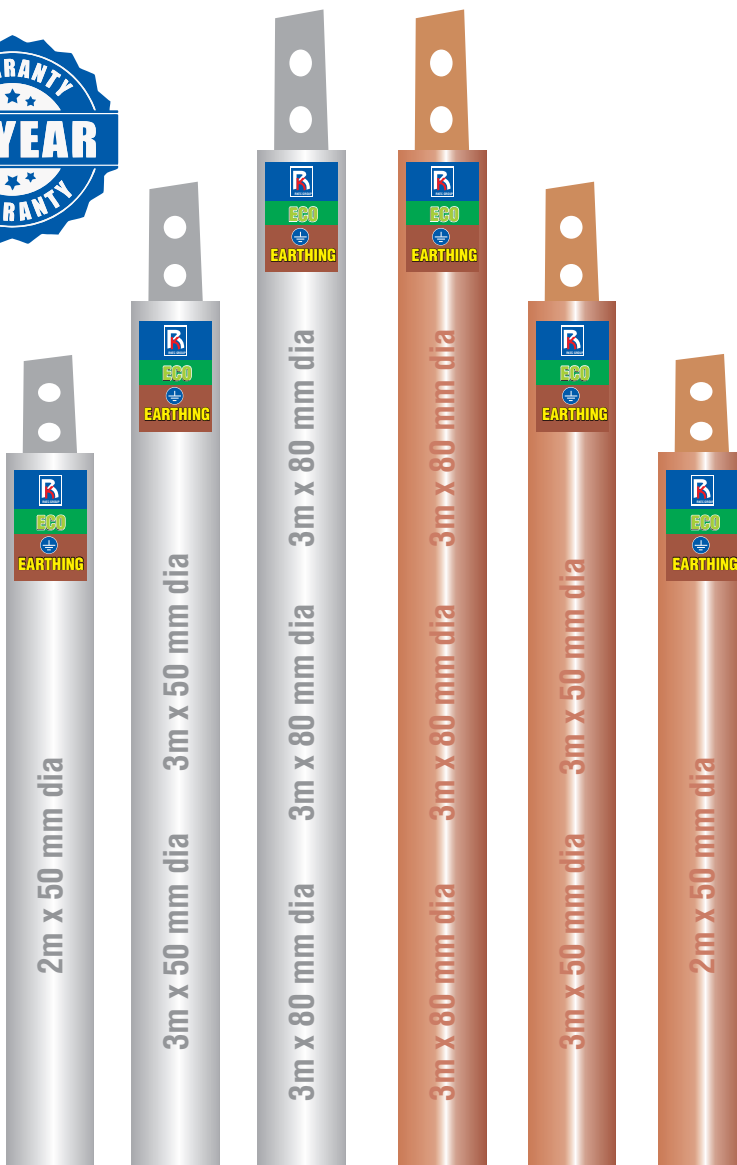
EARTHING

CHEMICAL EARTHING

R.K. Infraa Manufactures Innovative, safe, corrosion resistant and durable Earthing Systems. RK-ECO Earthing Cost Effective Solution for all grounding requirements. we Providing the Best Quality Grounding System to our valuable clients. Over the years, we have been able to offer state of the art corrosion free grounding system ideal for all types of soil conditions and environments. Our products have helped our customers to save resources by preventing damage to costly equipment and increase productivity by eliminating unnecessary downtime.

Benifits of RK-ECO Chemical Earthing Electrodes :-

- | Advance Earthing Solution
- | Requires Less Space for Installation
- | Maintenance Free
- | Low Resistance Value
- | It Helps In Faster Dissipation Of Fault Current
- | Eco Friendly
- | No Fluctuation in Resistance
- | Corrosion Free
- | Long Life – Just Fit & Forget
- | Absorbing & Retaining Moisture For A Long Period



Earthing Accessories



Earth Pit Chamber



Copper Strip



GI Strip



RELAY TESTING AND RETROFITTING

R.K. Engineering Corporation provides relay testing and commissioning, maintenance of all projects related to Generating stations & Substations. We offer Power Management System design, Engineering, Consultancy, Start-up support, Analysis & Solutions. We design engineering project management, consultancy for EHV Indoor GIS substation and outdoor AIS Switchyards up to 765kV including complete package of Electrical, Civil and Structural Engineering. We have well qualified and experienced engineers to execute all Electrical Testing & Commissioning activities. We also provide Customized Training Programs on Industrial Electrical Power System.

Relay Retrofit Solutions, Protection System & Schemes Testing

1. Pre-commissioning activities & Start-up Support
2. Complete Switchgear & Protection Scheme Testing
3. Testing of Protective Relays
4. Relay Retrofit Solutions
5. Configuration/Programming of Relays
6. Testing of CT's, PT's and Transformers of all voltage Levels up to 765kV

Engineering and Testing Services

Our highly trained field-testing engineers and technicians offers services on Engineering design, testing, Commissioning, Retrofit and Maintenance services. Our Services are at different stages of Project such as during Manufacturing, Factory Acceptance test (FAT), Site Acceptance Test (SAT), Equipment and Product Inspection Services, during Operations and Shutdown. Our engineers handle the site independently for Installation supervision, Cable schedule preparations & modifications.

Simulation Studies

01. Load Flow Study
02. Short Circuit Study
03. Relay Coordination Study
04. Harmonic Study
05. Arc Flash Study
06. System Grounding
07. Dynamic Motor Starting Study.
08. Dynamic Motor Re-acceleration Study
09. Transient Stability Study
10. Lightning & Switching Transients Study
11. Insulation Coordination Study
12. Transformer Energizing Study
13. Transient Recovery Voltage Analysis for CBs
14. Fast Motor Bus Transfer Simulations
15. Capacitor/Reactor/Line Switching Study
16. Study for Resonance & Ferro resonance Conditions
17. Branch Switching Study



OMICRON-CMC356
The Universal Relay Test Set and Commissioning Tool

Fig - 02



Switchgear, Drives, PLC & Automation

Best ISP Award in Budapest (Hungary)

We Offer reliable and high performance oriented L&T make variable frequency AC drives & Solutions. we grasp of the specific needs of each industry and offer application-specific solutions for various industries such as Steel Cement, Power, Mines, Paper, Food processing units, Cables, Pharma Chemicals, Oil, Gas & OEM.



Sx2000 IP66 Drive

Range : 0.75 to 25KW



Sx2000

Range : 0.75 to 90 KW



Fx2000

Range : 0.75 to 450 KW



Soft Starter

Range : 7.5 to 110 KW

Fig - 03

L&T SWITCHGEAR

SAFE & SURE

L&T India's leading switchgear company offers the widest range of electrical standard products, compatible with Indian and global standards.



Omega Air Circuit Breakers



C-Power Air Circuit Breakers



Contractor Relay



Capacitor



MCB/RCBO



MCCB



Fuse



Stator



Meters

Fig - 04



SHANTHI GEARS

Received the Gold Award 2018 at Coimbatore

Shanthi Gears is the unique gateway to a wide range of power transmission products which includes gears, gear boxes, geared motors and gear assemblies both standard and custom-made.

Introduction

- Only gear company in India having AS 9100C certification (Aero Standards)
- Fully integrated operations with strong in-house R & D and design capabilities
- Most modern & largest CNC-controlled pit type carburizing heat treatment plant in India
- Gears from a few mm dia to 3,200 mm dia
- Supply of spares for any make gear box

Facilities available in-house:

- Foundry, Forging and Fabrication
- CNC turning / machining, Hobbing, Gear profile grinding and testing
- Heat treatment
- Metrology & Calibration

Standard

- Worm Gear Boxes
- Helical & Bevel Helical Gear Boxes
- Geared Motors
- Planetary Gear Boxes
- Shaft mounted Gear Boxes
- Cooling Tower / Extruder / Rolling
- Mill Gear Boxes

Custom Built

- Loose Gears Spur / Helical Gear
- Pinion Shaft
- Internal Gear
- Worm and Wheel
- Straight & Spiral Bevel Gear
- Spares for Gear boxes
- Special Gear Boxes for industries like:
Steel Cement , Mining , Power

Services

- Health Check & Reconditioning of gear boxes.
- Re-engineering of existing gears.
- Servicing of any make Gearboxes in-house / at site.
- Offline & Online Condition Monitoring
- Maintenance Contracts



Fig - 05 - Worm Gear Box

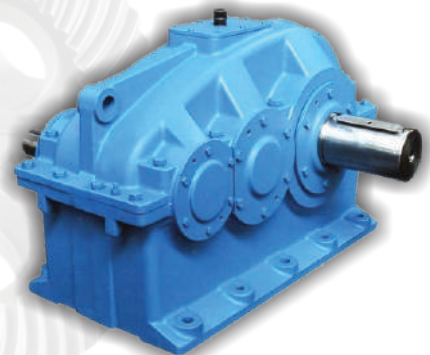


Fig - 06 - Helical Gear Box

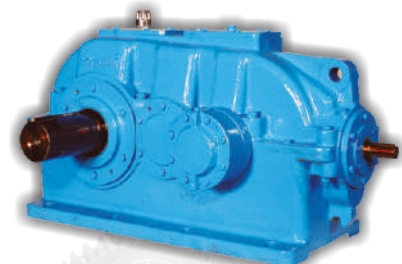


Fig - 07 - Bevel Helical Gear Box



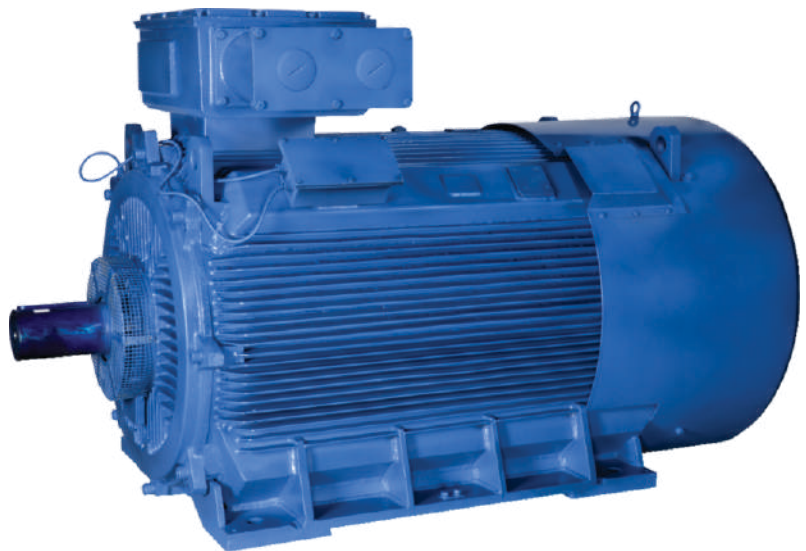
Fig - 08 - Geared Motors



LT & HT MOTORS

The industrial accounts for over half the total electricity consumption, of which 60 to 70% is utilized by electric motors. This indicates that the electric motors consume more energy than any other application. We are Dealing with energy efficient motors IE2, IE3 and IE4.

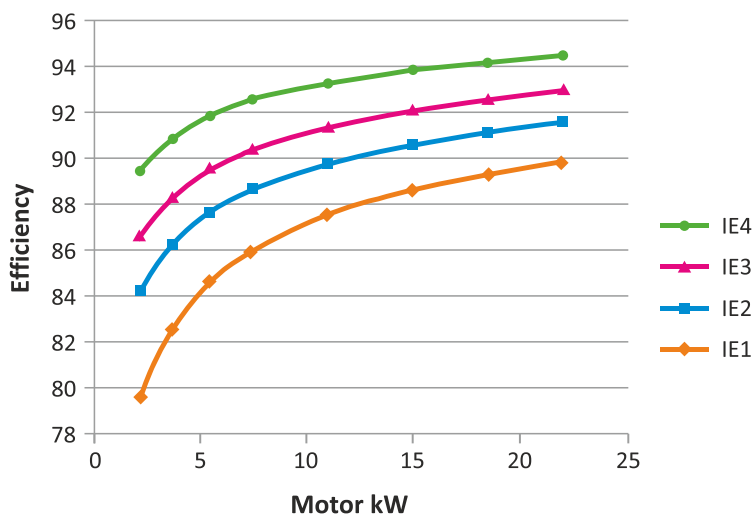
- LT Motors
- HT Motors
- DC Motors
- Slip-Ring Motors
- Flame Proof Motors
- Crane Duty Motors
- Brake Motors
- Inverter Duty Motors
- Cooling Tower Motors
- Mill Duty Motors
- Textile Motors
- Cooling Tower Motors
- Motor Spares
- Vibration Motors
- Traction Motors



Standard Motor

Fig - 09

Comparison of Motor Efficiency classes



Efficiencies of IE4 is 5 to 12% higher than IE1.



RR KÄBEL



LT & HT Cables

Our success today will be instrumental in our achievements tomorrow. As one of the leading wires and cables manufacturers in the world, we at RR Kabel are also the pioneers of wire design, technology and applicability. Our cutting edge technology and research has continually enhanced the efficiency, reliability and safe conduction of electricity.

- REACH compliant cables
- First Indian cable manufacturing company to have ISO 50001:2011
- RoHS compliant cables
- Manufacture cable with CE marking
- Cable Company to have international certification

Products

- Power Cables
- Control Cables
- Instrumentation Cables
- Flexible Cables
- Fire Survival & Fire Alarm Cables
- Building Wires
- Speaker Cables
- CCTV Camera Cables
- Submersible Flat Cables
- Data & Communication Cables
- Servo & Drag Chain Cables
- Silicon Cables
- Solar Cables
- Auto Cables
- Welding Cables
- Battery Cables
- Elevator Cables
- Bus Application Cables
- Braided Straps

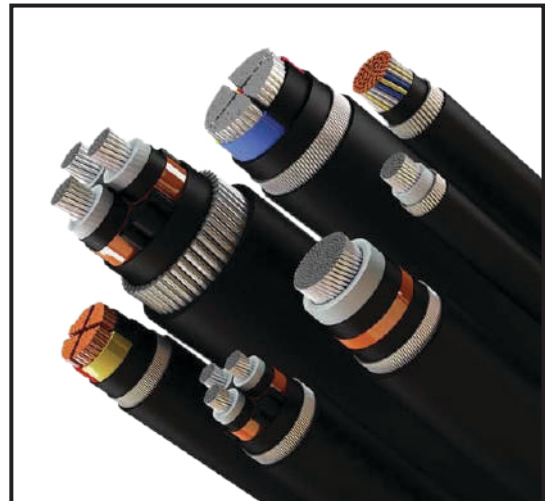


Fig - 10



Fig - 11



Fig - 12



Our New Feathers - II



VT Corp
Better than the Best

VT Corp (ESP)

With the aim of making our world a better place to live and to protect the environment we have collaborated with VT Corp as one of the major electrostatic precipitator (ESP) manufacturer in India.

Considering the increasing demands of environmental protection VT Corp provides technically superior and most economical dedusting systems for various industrial application.

Dust concentrations at the precipitator inlet of hundred grams per m^3 can be reduced to any requested concentration at the precipitator outlet, e.g. to $20mg/Nm^3$, or even lower for applications.

Advantages of VT Corp Systems

- Gas Distribution Plate with the view of ensuring an even distribution of the incoming gas flow throughout the cross-section of the Precipitator and to reduce the overall pressure loss to optimum level, we provide walls of specially punched gas distribution plates at the inlet cone of the precipitator.
- Precipitator Casing: Our casing design is modular type. Our total weight of the casing is lighter by 15% to 20% as compared to our competitors casing weight.
- Precipitator's supporting structure and Bearings: Our pendular type supporting structure is specially designed to take care of thermal expansions. Hence no bridge bearings are required in our design. Hence it is maintenance Free.



We are also doing Retrofitting And Upgrading Of Existing ESP

Prompt after sales service is our priority.

Fig - 20

Our New Feathers -III



Berger Industrial Paints

Electric shock-resistant, dielectric coating

PRODUCTS

- | Anti Corrosive Coating
- | CUI & HR Coating
- | UV & Weather Resistant Coating
- | Chemical Resistant Coating
- | Food Grade Pipe Coating
- | Passive Fireproof Coating
- | Electrical Sub-Station and Electrical Panel Rooms (Electric Shock-resistant, dielectric coating)
- | High Solid content epoxy
- | Thermal shock-resistant, water-based polyurethane concrete
- | Anti-scratch and anti-slip polyurethane clear coating
- | High solid content oil resistant epoxy



Fig - 21

Our New Feathers -IV

SOCOMEK



When electrical power is crucial, when lighting is essential, when the process is critical

Our Products & Services

- | Measurement, energy management & analyse
- | Fuse protection
- | Electronic protection
- | Enclosures & accessories
- | Uninterruptible Power Supply
- | Complementary solutions
- | UPS Management
- | Power conversion and Energy storage solutions
- | Change Over Switches (Manual, Motorized And Automatic)
- | Safety Enclosures
- | Automatic Transfer Switch (ATS)
- | Energy Efficiency Products (Multifunction Meters)
- | Load break switching
- | Transfer switches



Fig - 22



**Automatic
Electric Ltd.**



Automatic Electric Ltd. is a renowned and leading manufacture catering to a wide range of Electrical Measuring Instruments and Power System Equipments. AE was established ub 1942 and from its inception, because of its innovation & quality conciseness AE had always set new bench mark in the field of Electrical Measuring Instrumentation, Power systems and Instrument Transformers. AE is headed by professional team who all has core competence in manufacturing, desing and development of Electrical Measuring Instrumentation, Power systems and Instrument Transformers and build strong company fundamentals.

• **Electrical Measuring Instruments**

- Voltmeter
- Frequency Meter
- Kwh Meter
- Maximum Demand Meter,
- Synchroscope
- DC Energy Meter
- DPM RMS Meters
- Ammeter
- Power Factor Meter
- Transducer
- Frequency Meter
- Shunt
- Energy Audit Kit
- VIF Meters

• **Power Control & Energy Saver Equipment**

- Ultra Isolation Transformer
- Lighting Transformer
- Dimmerstat
- AC Voltage Stabilizers
- Current Injection test kit
- Automatic Power Factor Controllers
- Electroplating Rectifier

• **Instrument Transformer**

- Current Transformer
- Voltage Transformer
- Low Tension Current Transformer
- Potential Transformer
- Indoor-Tape Wound Transformer
- Resin-cast Transformer
- Encapsulated Type CT
- HV Tester



Meter
Fig - 23



11 & 33 KV CTPT
Fig - 24



132 KV CTPT
Fig - 25



LTCT
Fig - 26



High Voltage Testing Kit
Fig - 27



Varriac/Dimmerstat
Fig - 28



Transducer
Fig - 29



HIGH MAST & POLE

We offers a wide range of High Mast Lighting Poles or High Mast Lighting Systems, customized as per client requirements that are used for roadways, ports, and other industrial area lighting, stadium lighting, flag mast.

High Mast



Pole

- **Lighting Mast**
- **Street Lighting Pole**
- **Decorative Lighting Pole**
- **Camera Pole**
- **Distribution Pole**
- **Flag Mast**
- **Smart Pole**



Installation at Ultratech, Hirmi, Raipur (C.G.)

Fig - 30

HALONIX
The Right Light



HAVELLS



LED AND SOLAR LIGHTING



Industrial Luminaries



LED Street Light



LED Flood Light



LED Bay light



LED Canopy Light



LED Well Glass



LED Flat Panels



LED Slim Panels



LED AND SOLAR LIGHTING

DELIVERING COMPLETE RANGE OF
CLEANING SOLUTIONS



SWEEPERS | SCRUBBER-DRIERS | VACUUM CLEANERS
CARPET CARE | PRESSURE WASHERS | STEAM CLEANERS
CITY CLEANERS | JANITORIAL | DETERGENTS & PADS

Sales, Service, Spares & Hiring with



MATERIAL HANDLING EQUIPMENT



We are Authorized Dealer of Godrej (MHE) for equipment, spares and services. Godrej is India's largest manufacturer of forklifts. Our range includes electric and diesel forklifts up to 25 tonne capacity, warehouse trucks and special trucks for specific applications. We also manufacture attachments of our own design for addressing a wide range of handling applications besides offering attachments made by international specialists in the field when the application demands.

Products:

- Diesel Forklift
- Electric Forklift
- Tyre Handler Forklift
- Stackers
- Hand Pallet Trucks
- Aerial work platform
- Special Forklifts

Services

- Spare Parts and Technical Assistance
- Training
- Operations and Maintenance Contracts (OMC)
- Annual Maintenance Contracts (AMC)
- Overhauling & Upgradation
- Buyback Packages & Equipment on Hire
- Preventive Maintenance
- Engine and Transmission Over Hauling
- Forklift Up gradation



Forklift Trucks - 5 T.

Fig - 33



Hand Pallet Trucks - 2.5 T.

Fig - 35



Forklift Trucks - 3 T.

Fig - 34



MOTWANE is a leading designer and manufacturer of high performance, high precision Electronic Test and Measurement Equipments in India.

- Digital Multimeters | Clamp Meters
- Megger | Oil Test Set | Earth Tester
- High Voltage Detector
- Primary Injection Kit
- Secondary Injection Kit
- High Voltage Test Set



Fig - 38

JOINTING KIT

Types Of Jointing Kit

- Indoor termination
- Outdoor termination
- Straight through jointing kit

Voltage Range :

- 1.1 KV(LT) to 33 kv(E/UE)

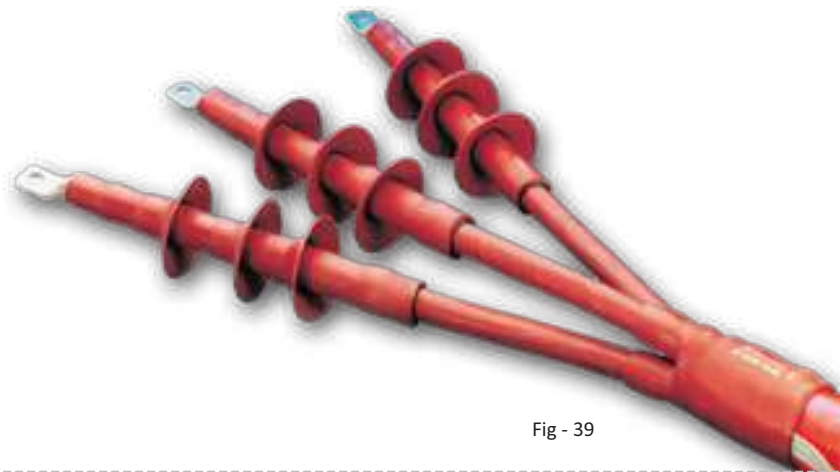


Fig - 39

We Also Deal in

Products

- Control Transformer
- Isolation Transformer
- Harmonic block reactor
- Line Choke
- Harmonic Filter
- Dynamic Braking Resistor (DBR)
- Load Bank Resistive & Inductive
- Semiconductors Devices - Fuses, IGBT, Diode & Thyristor
- Pressure Transmitters
- Ultrasonic Flowmeters & Water level Transmitter
- Temperature Controllers
- Gas Analyzers
- Power Cable Joints & Terminations kites up to 245kV
- Industrial Cable Glands
- Surge Arresters



Fig - 40

We are Serving Customers Nation Wide





RK Family Gallery



New Workshop Pooja Ceremony at Raipur



New Workshop Inauguration at Raipur



RK Family Celebrating Vishkarma Pooja



RK Family Celebrating Vishkarma Pooja



RK Family Celebrating Vishkarma Pooja



RK Family Celebrating Vishkarma Pooja



RK Family Celebrating Independence Day



RK Family Gallery



Celebrating Foundation Day



Celebrating Ganpati Pooja At R.K. Office



R.K. family Celebrating out door



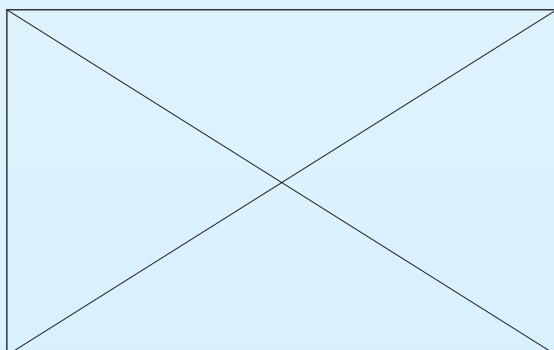
Celebrating Staff Birthday At R.K. Office



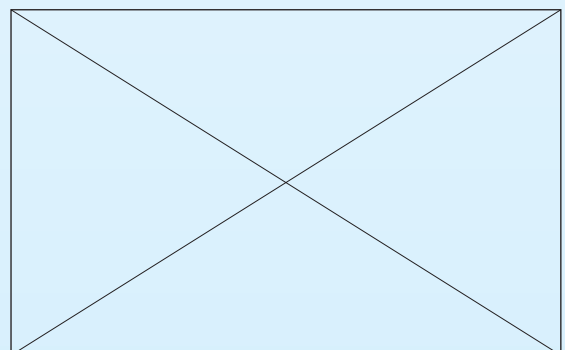
R.K. family Celebrating Holi



R.K. family in Maihar Mata Temple



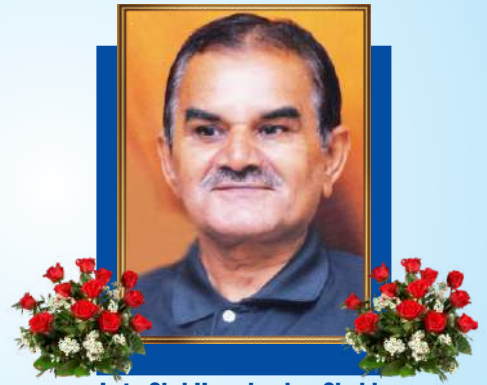
Celebrating Vishkarma Pooja At R.K. Plant



R.K. family Celebrating out door

R.K.FOUNDATION

R.K. Initiatives ... to Build a Better World ...



Late Shri Umashankar Shukla

OUR COMMITMENT AND SERVING TO OUR SOCIETY

R.K.Foundation wishes to fulfil the dreams of my father late Shri Umashankar Shukla for a prosperous society. The foundation is dedicated to his unforgettable memories who had always been a guiding star and an unparalleled wonderful human being. - Rajendra Kumar Shukla

RK Engineering Corporation views CSR as the act of exercising its corporate philosophy. We respect and value our customers as well as value all people & global environment. We run **RK Foundation** Headed by **Dr. Rashmi Shukla** to carry out our mission with integrity as a good corporate citizen in globule society. RK Engineering shall allocate at least 2% of its average net profits before taxes for CSR Activities. Our focuses on thrust areas technical education, health & Environment.



R.K. ENGINEERING CORPORATION

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E-mail : rkinfraa@rkecgroup.com

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For Service - 9589242800, 7024154381, E-mail : service@rkecgroup.com
For Logistics - 9755023153, E-mail : rkdispatch@rkecgroup.com

www.rkecgroup.com

BRANCHES : | Mumbai | Indore | Varanasi | Rourkela | Jamshedpur | Singrauli