

**TUV** INDIA  
ISO 9001 : 2015  
ISO 14001 : 2015

*plastrofab*

# Controlling POWER





## Controlling Power

Electric Power Control deals with routing electric power, controlling its quality, and controlling the devices attached to a power line. A number of electrical technologies have evolved for using the power wiring to turn devices attached to the power line on and off, monitoring attached devices, and similar activities. Collective efforts are taken by PLASTOFAB for power utilities sector to serve break free products.

Plastofab has played a leading role in the development of Instrument transformer, Epoxy Resin Cast & F. R. P. Components including Test Terminals Blocks in the switchgear field since 1983.



## **Vision :**

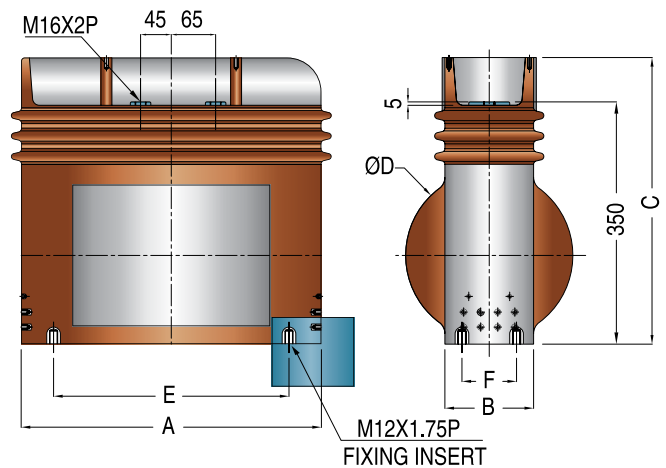
Gradually changing of the global power distribution scenario, Plastofab also emerged synchronizing with the world flow and diversified its product development ranges in phase with the motion.

## **Mission :**

Plastofab products are committed to serve society through application in conjunction with various equipments e.g switchgears, transformers and allied products for the transmission & distribution of electrical power to both industry & domestic field within the society.



# Designers, Engineers and Contractors



All necessary tools are being designed and manufactured through Power-shape & Power-mill software initiates through CNC machines using special grade of steel



Automated Software for designing and documentation, assists in evaluation of high precision design to meet specific requirements of discerning customers. With a highly trained and experienced cadre of professionals from diverse disciplines, Plastofab ensures its quality consistent and product range comparable with the best anywhere around the world.

## Services Provided:

- Value engineering in all aspect level conforming the product as per statutory clauses and customer's field application need
  - Design modification on the basis of 'FMEA' (Failure Mode Effect Analysis) against field report from customer site
  - Type test activities of new products from Independent laboratory for design validation before commercialization
  - Failure analysis and solution against failure at field (customer end) & solution proposal for remedial measure to customer
- Application solution for switchgear as per actual field requirements.

## Engineering:

For three decades, Plastofab has been working successfully in the switchgear industry. Here too, involvements are the outstanding workmanship in the molding and tool room facilities, for all aspects of instrument transformer and epoxy cast products. Plastofab offers a comprehensive package of specialized work and services. The packages include product designing and manufacturing through CNC machines from modernized tool rooms, apart from acting as a solution provider to solve customer's application problem.

### **Solutions Provider:**

- Guidance related to selection of requisite needs as per customer's field requirements and application specially on CT/PT selection
- Retrofit solution/indigenization of various components associated with switchgear / transformer products for power distribution/generation specific application
- Power system Network analysis against customers field/actual requirements for the selection of product and supply to end customer as per desired needs



# Customization, Quality and Delivery



Core Test Instrument



Conductivity Test Instrument



Plating thickness measure Instrument



Pin hole test for SE Wire



Thermogravimetry Tg Analysis (Resin System Process Control)



Automatic accuracy Test Instrument

*Plastofab manufacturing system is ISO 9001:2015 and ISO 14001:2015 certified accredited. Effective quality assurance required for control measurement at each stage of the manufacturing process is being entered through various stages. Plastofab's commitment to power supply quality continues with a rigorous post-manufacturing testing sequences. Each of the products undergo a series of comprehensive tests to ensure that it will dependably perform to the required specifications as per customer system application deserve.*

## **Various GIST facilities as followed:**

- Sophisticated laboratory equipped with modernized test equipments to ascertain quality of products manufactured both as per customer's requirement as well as statutory clauses in fulfillment required by national or international standards e.g IS/IEC/ANSI Etc
- Imported instruments monitor & ascertain the conformity of resin casting process through' checking of thermogravimetry/glass transition temperature (Tg) indicator analysis
- Apart from various quality checking on resin casting products as per Statutory Norms, x-ray imaging also carried out in addition, to special check the quality of void free casting



Switching Impulse Test



Partial Discharge Test



33kV PT test in operation



Partial Discharge Test (Digital)



11 kV ODCT test in operation

- **QUALITY STEEL ( CRGO / NICKEL STEEL / NANOCRYSTALLINE )**
- **EDGE BONDING & CORE INSULATION**
- **SECONDARY WINDING**
- **EXTERIOR INSULATION**
- **FINAL TESTING**

Every current transformer undergoes Series of checking as per customer's exact specifications as well as National/International Statutory Norms as specified.

#### **TEST FACILITIES**

Plastofab products are designed and manufactured to meet customers need & statutory (national/international) specifications for desired applications. The test procedures sketched out to determine compliance with those specifications.

Products tested at Plastofab laboratory ensures reliable and safe operations at site as well as application.

Thermogravimetric (Tg) test analysis are performed to ascertain the special process followed during manufacturings of products to meet desired applications against specific requirements as per resin system characteristics recommended by resin manufacturers for various or particular needed application.

# The Plastofab Difference

People, from the manufacturing floor to the front door, all believe that customers deserve the very best in products quality and post-order service.

People are committed to doing it right in time and have earned Plastofab recognition as the leading global supplier of precision Instrument Transformers & Insulating Components.

Plastofab strives to create a culture that attracts, retains and engages employees to be a part of the company and the products manufacture. Plastofab provides a safe, diverse, and exciting workplace by working together with a dedication reflected in quality products and industry reputation for performance.



Transformers are designed and manufactured in our 100,000+ square feet, state of the art facility.







## Power Generation, Transmission and Distribution

To meet the electrical needs of the utility generation & process industries market, Plastofab develops, manufactures & supplies various models of Instrument transformers along with associated components related.



# Our Results



Biecco Lawrie | Pascal Switchcare | CESC | Toshiba | Maruti-Suzuki  
WBSEDCL | GE-Alstom | Stelmec | Esun Reyrolle | Various OEM's  
| EAP (Siemens-Partner) |

## Global Existence



• *Bangladesh*



• *Cyprus*



• *Indonesia*



• *Myanmar*



• *Netherlands*



• *Portugal*



• *Singapore*



• *Saudi Arabia*



• *Turkey*



• *UK*



• *Malaysia*





Bushing



Support Insulator



Resin Cast 11 kV Indoor CT



Interruptor Housing



Live Line Indicator + VDI



Interruptor Housing



GIS CT (36kV)



GIS PT (36kV Metal Cover)



PT (11kV) Gun & Barrier



Ring CT (Resin Cast)



Resin Cast 33 kV Gun Type PT



Resin Cast 15kV Outdoor CT



Resin Cast 33 kV PT



Bushing



Epoxy Resin Cast 33 kV CT



Resin Cast 36kV Outdoor CT



Resin Cast 15kV Outdoor PT



Resin Cast 36kV Outdoor PT

# Interruption Free Products

Instrument Transformer, Epoxy Resin Cast & F. R. P. components including Test Terminals Blocks, Test Blocks, Auxiliary Switches, Busbar Supports, Motor Terminal Blocks for new technology in the switchgear(LT & HT) field since 1983.



Ring CT (Paper Insulated)



Resin Cast PT 3.3/6.6/11 kV



11kV Draw-out PT



Products (L.V. Application)



Drive Insulator



36kV Outdoor CT  
(Live Tank)



36kV Outdoor PT



Spout Bushing



L.V. Monoblock upto 5000 Amps



CT Bushing

# Values and Beliefs



**Respect** : Committed to strong values in service to the society with full respect to electrical and power supply customers, associates, and employees etc.



**Teamwork** : Diversity and unity brings creativity and relationship within the company and to customers.



**Integrity** : Plastofab brings to the highest ethical standards.



**Innovation** : Innovative and informative regarding interesting new ideas in electrical power utility industry and the explicit market needs in a responsive supply chain.



# Our New Facilities

New administrative offices are designed to offer expanded engineering, technology, sales/marketing, accounting, and customer services. This new building is another testament to Plastofab's commitment to continuous improvement and dedication for manufacturing in India - Kolkata.

Facilities are designed with careful consideration given to all Safeties and energy consumption norms. Plastofab uses only Energy Star rated appliances and are Environmental Protection Act Certified. Plastofab recycles all waste materials used in the manufacturing system looking towards Green environmental norms.

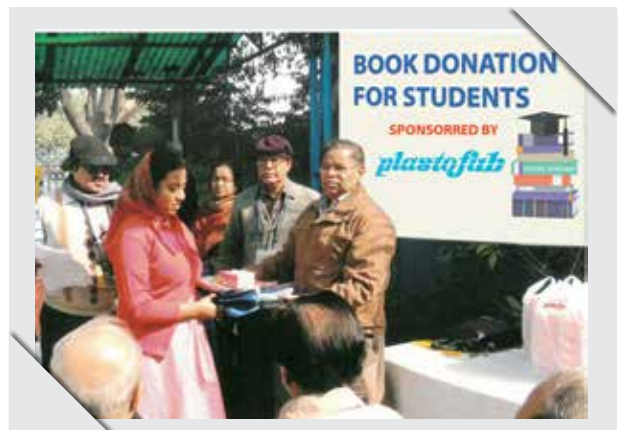


# CSR Activities



## SOCIAL RESPONSIBILITIES:

- Participate and organize Blood Donation Camps
- Annually organize social get-togethers with all employees along with their family
- Best employee recognition & encouragement through' special prizes etc for new invention/attendance/commitment towards job quality
- Participations in various social activities, through' financial donation or assistances e.g. Book donation to socially needed students
- Periodic checks & monitoring of employees health conditions and remedial advice if necessary
- And other responsibilities as well



**Register Office Address :**

**PLASTOFAB**

34,Chittaranjan Avenue,3rd Floor, Room No.10,  
Kolkata-700012, India  
Telefax:- +91 33 2212 2508.

mkt.kol@plastofab.com  
info@plastofab.com  
admin@plastofab.com  
**www.plastofab.com**

**Works Address :**

**Sodepur Works: 134, Nilgunj Road, Panihati, Sodepur, Kolkata-700114. India**  
**Tel:- +91 33 2553 3317, Fax: +91 33 2553 3318**



**Nashik Works: H-34, MIDC Industrial Area Satpur, Nashik - 422 007. India**  
**Tel. : +91 253-2363040 / +91 253-2363041**

