

***Innovating  
for an enlightening future***



**SARAVANA GLOBAL  
ENERGY LIMITED**



## SARAVANA GLOBAL ENERGY LIMITED

**Saravana Global Energy Limited (SGEL)** is a Public Limited Company promoted by leading entrepreneurs with over two decades experience in finance, hire purchase and jewellery sectors

The company was established by purchasing the total assets of erstwhile Seshasayee Industries Limited who were prominent suppliers of high voltage insulators to electric power utilities and power projects for more than 25 years.

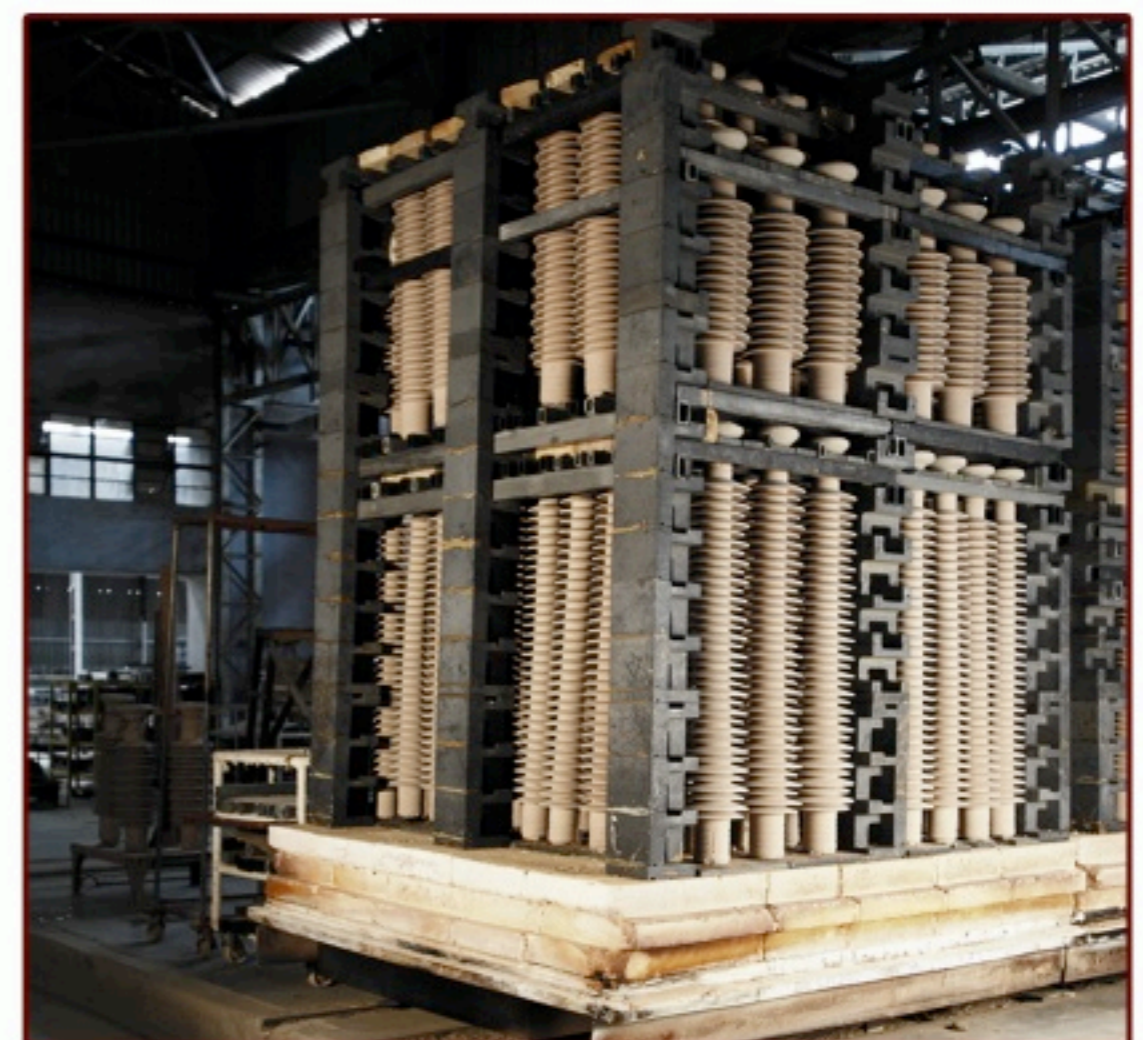
After acquisition the total setup was revamped, and modernized to achieve a production capacity of about 500 tones per month and later on was expanded to 1000 tones per month to manufacture the following range of sophisticated products required by the power industry

- \* Solid Core Post Insulators upto 765kV
- \* Solid Core Long Rod Insulators upto 765kV
- \* Hollow bushings, S<sub>f</sub>6 Circuit Breakers, CTs/ CVTs / lightning arresters.
- \* 25kV Solid Core Insulators for Railway Electrification



### Salient Features

- ☆ Experienced R & D product development team.
- ☆ Products meeting Indian & International standards (IS, IEC, ANSI)
- ☆ Regularly supplying to Electricity Boards, Power Grid Corporation of India Limited, Indian Railways etc.
- ☆ Exports to Australia, Europe & America
- ☆ Successful track record.
- ☆ Latest technology sourced from leaders across the world.
- ☆ State-of-the-art manufacturing facilities - most of the equipment has been imported from the best available sources and key technical personnel have under gone training in European factories.
- ☆ End -to-end facilities, from design to testing are available at one location.
- ☆ NABL accredited modern Extra High Voltage cum Mechanical Testing Laboratory similar to national testing laboratories like CPRI, to test upto 400kV and even above.





## Composite Silicone Rubber Insulators

SGEL is now focused in the development of Composite Silicone Rubber Insulators

### Product Range

- ◆ 25kV Railway Traction Insulators 1050 mm CD & 1600mm CD
- ◆ Long Rod Insulators for Transmission Lines (upto 765kV)
- ◆ HVDC Insulators (upto 800kV)
- ◆ Post Insulators upto 245kV
- ◆ Hollow Insulators upto 245kV

### Salient Features of SGEL Silicone Rubber Insulators

- \* The SGEL make of silicone rubber composite insulators will meet the requirements of IEC:61109, IEC:60815, IEC:62217, ANSI:29.13 and any relevant international standards.
- \* Use of both HTV and LSR grades of silicone rubber depending upon the requirement of the product.
- \* Use of Silicone Rubber Compound from Global suppliers like Wacker, Momentive, Dow Corning etc.
- \* FRP rods will be manufactured using ECR grade Glass Fiber and Hydrolysis Resistant Epoxy Resin System.
- \* SGEL's aim is to manufacture excellent quality Silicone Rubber Composite Insulators and supply to their customers in India and Overseas.

### Critical tests met by Silicone Rubber

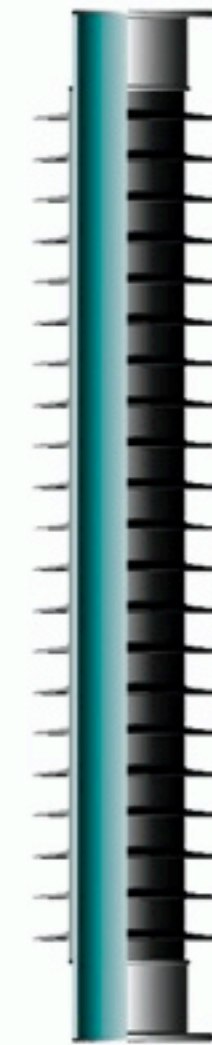
- \* Resistance to Weathering & UV as per ASTM:G53-96.
- \* Recovery of Hydrophobicity.
- \* Tracking & Erosion as per IEC-60587.
- \* Tensile and Elongation.
- \* Tear strength.
- \* Dielectric Strength.
- \* Shore-A Hardness.
- \* Specific Gravity
- \* Volume Resistivity.

### Critical tests met by FRP

- \* Dye penetration as Routine test
- \* Water diffusion as Routine test
- \* Percentage of Glass Content.
- \* Water Absorption
- \* Specific Gravity
- \* Resistance to Brittle Fracture.



Railway Traction Insulator



Hollow Insulator



Ball & Socket Insulator



Post Insulator



Y-Cleves & Ball Insulator



Tongue & Clevis Insulator



## GLOBAL POWER RESEARCH INSTITUTE

NABL Approved High Voltage & Mechanical Testing Lab

**Global Power Research Institute (GPRI)**, a unit of Saravana Global Energy Limited (SGEL) is a EHV testing facility located at Cuddalore, adjacent to SGEL. Having excellent testing facilities compared to other EHV Labs in India, GPRI is a first of its kind private lab to have High Voltage and Mechanical Testing, for design testing and R&D work connected with Insulators and various other electrical equipment manufactured by the power industry. The lab is approved by the Department of Science & Technology, Govt. of India. and is accredited by the National Accreditation Bureau of Laboratories, Govt. of India.

The GPRI laboratory is updated with instrumentation in tune with the latest requirements. The lab is qualified for undertaking the testing of manufacturers of Insulators, Isolators, S<sub>6</sub> Circuit Breakers, CTs/CVTs, Lightning Arresters etc., upto 400kV. The lab has done type tests for Railways, PGCIL, Electricity Boards, Power Projects etc., and the test certificate issued by GPRI is accepted and treated at par with the test reports issued by independent testing laboratories like CPRI etc.

The High Voltage and Mechanical Testing facilities along with SGEL's Plant could greatly help to accelerate the development of various categories of Insulators required by the Power industry while maintaining high quality standards of the products.

### Salient Features

- \* An NABL accredited Laboratory
- \* Test Report accepted by all State EB's, PGCIL, NTPC & other National Bodies.
- \* Systematic Electrical Testing upto 400kV for
  - Transmission Line & Equipment Insulators
  - Isolators
  - Breakers
  - Transformers
  - Conductors
  - Line Hardware
  - Accessories etc.
- \* Sophisticated instrumentation and experienced personnel.
- \* EHV Testing – Dry / Wet Power Frequency / Lightning Impulse / Wet Switching / RIV / Corona / Voltage Distribution as per ISS / IEC / PGCIL Standards.



Impulse Generator



High Voltage Testing Transformer



**Our motto - A passion for excellence that is driven by one ultimate goal...  
...TOTAL CUSTOMER SATISFACTION**

We constantly strive to achieve: Excellence in Quality ✧ Trouble free performance in field ✧ 100% RELIABILITY



## **SARAVANA GLOBAL ENERGY LIMITED**

**Registered Office:**

SARAVANA GLOBAL ENERGY LTD.,  
HO: NO.15, New Giri Road, T. Nagar, Chennai-600 017.

Tamilnadu, India.

Phone: +91-44-281 555 11, Fax : +91-44-43546235,

Email: [enquiry@saravanaenergy.com](mailto:enquiry@saravanaenergy.com)

**Works:**

Virudachalam Road, Peddunaicken Kuppam,  
Kurinjipadi Post, Cuddalore Dist- 607302.

Tamilnadu, India.

Ph: +91-9677077811 / 841 /842

Email: [enquiry@saravanaenergy.com](mailto:enquiry@saravanaenergy.com)