

# PROFILE OF G.V.SUKUMARA



A Graduate in Electrical Engineering, with 38 years experience to his credit in core R&D in Power Electronic and Magnetics.(all type of transformer and reactor operating from 50HZ to 100 Khz)

He started his career as 'Senior Design Engineer' at M/S Forbes, Forbes Campbell and Company Ltd, served as Senior Manager – R&D' in Keltron and 'Technical Advisor' to Uptron, Ghaziabad, before he Promoted 'Elcot Power Controls Limited' in a Joint Venture with 'Electronics Corporation of Tamilnadu (ELCOT)' in 1985.

At present he is the **CHIEF TECHNICAL OFFICER OF 'PRAPATI'** .

**As 'Head – R&D', following are some of his achievements in Design and Development :**

## **PATENTS AWARDED / PENDING :**

- **A System and Method for Dynamic Power Distribution Load Management**
- **Shock guard.**
- **GSM / GPRS based remote controlled wireless lock / switch.**
- **HIGH SPEED PRECISION MAGNETIC ACCUATOR**

## **DESIGN AND DEVELOPMENT**

- Designed , Developed and Commissioned Micro Processor Based Precision ARC Generator for Schneider Electric Infrastructure Ltd . / Kolkatta
- Micro Processor Based 10000 A / Arc Generator For GEC / Kolkatta
- 20-80 V/ 30000 A /. Low Voltage High Current Transformer For Jindal Aluminium
- 1200 KW Automatic Constant Voltage Rectifier For Mapp, Kalpakkam - Using The Principle Of Magnetic Power Amplifier And Saturable Core Reactor.
- 60 V / 8000 A / Bi-Directional Converter For National Metallurgical Laboratory, Jamshedpur
- Micro Processer Based Battery Management Systems For Mazagaon Docks
- Micro Processor Based Energy Management for Fuel Cell Application for Spic Science Foundation.
- Slip Power Recovery Based 150 Hp Ac Variable Speed Drive For Steel Rolling Mill In Trichy
- Re-Conditioning Of 3 Phase Frequency Converter For Special Application For Tamilnadu Minerals And Metals Limited, Ramanathapuram

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- Single Turn High Current Transformer For Liquid Sodium Heating For RRC / Kalpakkam
- Low Voltage High Current Air Cooled Dc Source For Generator Heating For KADAMBARAI Generating Station, Tamil Nadu
- Micro Controller Based 3000 Amps Total Capacity Smps For DOT / BSNL Without Any Collaboration From Abroad.
- 800 A Conventional Type Power Plant With Ultimate Capacity Of 5000 A - Supplied to Department Of Telecommunication(D.O.T). More Than 8000 Installations were in service for more than 25 years in the field., Without any AMC requirements
- 0 to 60 Volts/ 6000 Amps rectifier to produce aluminum per-chlorate to ISRO Alwayee, kerala
- Remote controlled dimmable electronics ballast to Westinghouse USA through AEL Nasik

## PROJECTS / WORK IN PROGRESS

- **GSM / GPRS and Web Enabled Controller for Energy Management.**
- **Working on high efficient LED driver.**
- **Working on single stage converter for portable welding set**
- **Working on grid interactive inverter for MPPT solar controller.**
- **Working on current source to meet peak power demand of load**
- **Working on converter to convert non linier load to linier load.**

You can contact Mr.G.V. Sukumara @ [www.prapati.in](http://www.prapati.in) / +91 94449-43708 / project.prapati@gmail.com