

**GOPINATH M S**

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Umm Al Hassam, Manama

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To become a successful professional in a renewable energy environment with smart and hard work

**EDUCATIONAL QUALIFICATION:**

Course	Board/University	Aggregate	Institution	Year of passing
M.Tech-Renewable Energy	Deemed university	82.29%	Gandhigram rural institute-deemed university, Chinnalapatti	2015
B.E (EEE)	(Anna University) Chennai	8.38*	M.Kumarasamy College of Engineering, Karur	2013
H.S.C	State Board	87.25%	Cheran Vidhyalaya Matriculation Higher Secondary School, Chinnalapatti	2009
S.S.L.C	Matriculation	85.45%	Cheran Vidhyalaya Matriculation Higher Secondary School, Chinnalapatti	2007

**\*CGPA****AREA OF INTEREST:**

- Renewable energy
- Energy auditing

**SOFTWARE:**

- PV SYST & HELIOSCOPE
- AUTO CAD

## EXPERIENCE:

- **Working as a Solar & Electrical Engineer in Intercol Contracting Co. Ltd**

- Bahrain, From **April 17<sup>th</sup> 2017 – Ongoing (Having Bahrain Driving License)**

### **Summary:**

Here I am acting as Renewable Energy Project Expert. Meeting with customers representative to understand the Solar project requirements, Preparation of Solar design basis reports based on the customer requirements, Electrical Energy Auditing, Prepare Electrical Design for solar PV System & New Electrical Layout in the building by using AutoCAD, Performance Ratio & Shadow Analysis for solar PV system using PVSYST/HELIOSCOPE, Solar & Electrical Site Monitoring, Preparation of single line diagram, Preparation of technical specifications of the equipment / material, Preparation of data sheet of equipment / materials, Preparation of cable schedules, Preparation of lighting and power layouts, Preparation of earthing layouts, cable tray/cable route layouts, Preparation of design sizing calculations, evaluation of technical proposal of capital equipment, attend technical meeting with sales team, Preparation of value engineering suggestions, optimized and cost effective design.

### **Project Overview:**

- **Project Name:** Intercol Solar 35

**Client:** International Contracting Co. Ltd

**Location:** Mina Salman, Manama, Bahrain

**Capacity:** 35 KW

**Details:** It's an ON GRID – closed loop Control plant installed with 4 types of panel & power optimizer. Consumer can control & monitor the grid feed in supply to the Electricity Board

**Project Status:** Completed

- **Project Name:** Intercol Solar 50

**Client:** International Contracting Co. Ltd

**Location:** Mina Salman, Manama, Bahrain

**Capacity:** 50 KW (15 KW Extension)

**Project Status:** Ongoing

- **Project Name:** Lebanon Villa 25

**Client:** International Agencies Co. Ltd

**Location:** Lebanon

**Capacity:** 25 KW

**Details:** It's an OFF GRID Hybrid plant installing single type of panel & power optimizer with Lithium Ion / Lead Acid GEL Battery. Consumer can store energy in battery by both solar & Electricity Board

**Project Status:** Ongoing

- **Working as a Solar Trainer & Design Engineer in Shobha Globs Engineers Hub Private Limited - Bangalore, From May 9<sup>th</sup> 2016 – March 10<sup>th</sup> 2017**

**Summary:**

My duty is to prepare Electrical Design for solar PV System using AutoCAD, Performance Ratio & Shadow Analysis for solar PV system using PVSYST, Site Work & visit to find out the feasibility of solar system, Preparation of single line diagram, Preparation of design sizing calculations, Attend technical meeting with sales team, Train the New Employee to know about the solar field & their nature of Duty.

**Project Overview:** PVSYST/HELIOSCOPE Design for 24 projects of solar plant.

- **Worked as a Training Coordinator in Everonn Education Limited-Chennai, From August 5<sup>th</sup> 2015 – April 4<sup>th</sup> 2016**

**Summary:**

I am Organized a 3 month solar program Name 'SURYAMITRA' Funded by **NATIONAL INSTITUTE OF SOLAR ENERGY** under the **MINISTRY OF NEW & RENEWABLE ENERGY** in Goa on Dec 16<sup>th</sup>, 2015 – March 16<sup>th</sup>, 2016. My duty is to Prepare a Course material, Equipment list, session plan, experiment for practical, framing question based on syllabus, Training the Trainers and Trainees, Collecting Details from Government and as well as from the trainers of the program, Project management

- **Worked as a Solar Trainer in Gandhigram Rural Institute – Deemed University Chinnalapatti, From September 24<sup>th</sup> 2014 – March 31<sup>st</sup> 2015**

**Summary:**

I am worked as a solar trainer in **SOLAR ENERGY TECHNICIAN TRAINING PROGRAM** Funded by **MINISTRY OF NEW & RENEWABLE ENERGY**.

My duty is to Train the Diploma and ITI student to work in the solar field.

## **CERTIFICATIONS & COURSES:**

- **CERTIFICATE IN ENERGY AUDITING** course in Gandhigram Rural University
- Participated certificate in **“Training of the Trainer”** program conducted by **National Institute of Solar Energy, Gurgaon**

## **PUBLICATION:**

- **“Feasibility of utilization of hydro energy in water supply tank”** In journal at **National conference on renewable energy innovation for rural development (REIRD-2014)**, at Gandhigram rural institute-deemed university, chinnalapatti, *Page No: 13-16, IJATER-VOL 4, SPECIAL ISSUE 2*
- **“Cost effective methods to improve the power output of a solar panel: An experimental investigation”** In **IEEE Explore Published in Power and energy systems conference: Towards sustainable energy,2014** at Amrita school of engineering, Bangalore, **ISBN No-978/1/4799/3420/1,Page No:1-4,DOI:10.1109/PESTSE.2014.6805282**

## **INTERNATIONAL PRESENTATION:**

- In **International Conference on Bio energy, environment, and sustainable technologies** presented a **Paper** on **“Performance Analysis of turbulent flow horizontal axis micro wind turbine”** at Arunai Engineering college, Thiruvannamalai, **ISBN No-978/81/926425/2/9,Page No:374**
- In **International Conference on sustainable energy technologies** presented a **Paper** on **“Performance Analysis of venture ducted horizontal axis wind turbine for efficient power generation”** at Psg College of technologies, Coimbatore, in **souvenir & Abstracts, Page No: 138**
- In **IEEE International Conference 2014 power & energy systems: towards sustainable energy(PESTSE 2014)**, presented a **Paper** on **“cost effective methods to improve the power output of a solar panel: An experimental investigation”** at Amrita school of engineering, Bangalore, **ISBN No-978/1/4799/3419/5,Page No:17**
- In **IEEE International Conference on renewable energy & suitable energy**, presented a **Paper** on **“Enhancement of Solar PV Power Output Using Mirror Reflection”** at Karunya University, Coimbatore, **ISBN No-978/1/4799/2075/4, Page No: 146**
- In **International Conference on renewable energy utilization**, presented a **Paper** on **“Cost effective Solar Cooker for Rural Household Application”** at CIT, Coimbatore, **Page No: 9**

## **NATIONAL PRESENTATION:**

- In **National Conference on green fuels from biomass bio refinery approach**, presented a **Paper** on “**Energy auditing in a Hi-Tech hospital: Scope for energy saving potential**” at Agricultural Engineering college and research institute, Coimbatore, **ISBN No-978/93/81972/48/9,Page No:93**
- In **National seminar on emerging food processing technologies for rural development**, presented a **Paper** on “**improvised techniques for drying of agro products using solar drier: a commercial viability option**” at Gandhigram rural institute-deemed university, chinnalapatti, **ISBN No:978/81/907537/8/4,Page No:52**
- In **National Convention on Renewable Energy Technologies** Presented a **Paper** on “**Steps to Achieve A High Energy Efficient Wood Burning Stove**”, at Mepco Schlenk Engineering College, Sivakasi

## **MINI PROJECT:**

- **Feasibility analysis of micro wind turbine and energy saving potential in sugar industries**

**Objective:** To analysis the micro wind turbine is suitable for our geographical environment or not and we analysis the energy saving potential in sugar industries by done by energy auditing

## **MAJOR PROJECT:**

- **Performance enhancement of biogas generation**

**Objective:** To analysis the enhancing of biogas generation by combining the techniques (plug & mixed flow model) as partial mixing digester

## **EXTRA-CURRICULAR ACTIVITIES:**

- **Trained Self Help Group- “importance of solar energy and it applications” – Conducted by “Entrepreneurship Development Institute-Government of Tamilnadu”**
- **Inspected 15 areas 1 KW Solar PV Panel** which is installed in the **Corporation Banks-Dindigul Dist**

**PERSONAL DETAILS:**

**Father Name** : SM.Shivashanmugam  
**Date of Birth** : 22/11/1991  
**Language Known** : English, Tamil, Kannada  
**Hobbies** : Listening music

**Place: Bahrain**

**[MS GOPINATH]**

**Date:**