



**Energy Management Centre - Kerala**  
**(Department of Power, Govt of Kerala)**

**CERTIFICATE OF EMPANELMENT**

*This is to certify that **M/s. Alphageek Enterprises Private Limited** (Building No. CGP VIII / 250 B, Karimulackal, Komalloor P.O., Charummoodu, Alapphuzha Dist., Kerala - 690505) is empanelled as Energy Audit firm in Energy Management Centre Kerala to conduct mandatory energy audit as per Government of Kerala G.O (Rt) No.2/2011/PD dated 01.01.2011.*

**Empanelment No:**  
**EMCEEA- 5524F**

<b>Scope/Area</b>	<b>Building</b>	<b>Industry -Electrical</b>	<b>Industry Thermal</b>
	Yes	Yes	Yes

*This empanelment is valid up to 06/12/2027*

*Issuing Date: 07/12/2024*

*Place: Thiruvananthapuram*

Director,  
Energy Management Centre Kerala

Information of firm		
1.	Name & address of the firm	Alphageek Enterprises Private Limited, Building No. CGP VIII / 250 B, Karimulackal, Komalloor P.O., Charummoodu, Alappuzha Dist., Kerala. Pin- 690505
	Office(with STD)	
	Mobile	+91 9400770648
	Fax number	
2.	Website (if any)	<a href="https://zerowatt.energy/">https://zerowatt.energy/</a>
3.	Email address	richuzachariah@zerowatt.energy
4.	Name, Designation and address of Contact person	Richu Zachariah Head- Energy Intelligence Alphageek Enterprises Private Limited
5.	Office (with STD)	+91-9445002609
	Residence (with STD)	
	Mobile	+91 9400770648
6.	Email address	richuzachariah@zerowatt.energy
7.	Year of establishment	2020
8.	Year of commencement of energy audit by the firm.	2024
9.	No. of branch offices (List of complete addresses including heads of all branch offices with telephone, fax and email addresses)	Registered Office: Alphageek Enterprises Private Limited, Building No. CGP VIII/250 B, Karimulackal, Komalloor P.O., Charummoodu, Alappuzha Dist., Kerala, India. PIN 69505.  Branches: 1. 2nd Floor, Integrated Startup Complex (KSUM), Kinfra Hi-Tech Park Main Rd, HMT Colony, Kalamassery, Kochi, Kerala, India. PIN 683503 2. 25 LG home, Annai Fathima Nagar, Vellakinar P.O., Coimbatore, Tamil Nadu, India.

		<p>PIN 641029.</p> <ol style="list-style-type: none"><li>3. Surasree, UG108A, Ulloor Gardens, Medical College P.O., Trivandrum, Kerala, India. PIN 695011.</li><li>4. IIMK LIVE, Top Floor, Computer Centre Building, IIMK Campus, PO, Kozhikode, Kerala 673570</li></ol>
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**Details of Associated Energy Experts and Audits Conducted by firm**

1.	Number of resource persons available	16
2.	Number of full-time energy auditors in position, with work experience of all energy auditors associated with the firm	1. Richu Zachariah Total Experience: 10 years
3.	No. of part-time energy auditors in position during the current year / previous year associated with the firm.	3
4.	Sectors in which the energy audit firm has conducted energy audits since inception and number of audits in each sector	*Sectors covered by the energy auditor <ul style="list-style-type: none"> <li>✓ Building- 7</li> <li>✓ Dairy- 3</li> <li>✓ DISCOM- 3</li> <li>✓ Tyre- 2</li> <li>✓ Chemical- 1</li> <li>✓ Cement- 1</li> <li>✓ Food processing- 1</li> <li>✓ Cold Storage- 1</li> <li>✓ Fishery- 1</li> <li>✓ Aluminium- 1</li> <li>✓ Printing- 2</li> <li>✓ Spices- 1</li> <li>✓ Rubber- 1</li> <li>✓ Cattle feed- 1</li> </ul>
5.	Energy audit process system (list sectors) - If no energy audit has been carried out of the process system and parameters, please list nil.	<ul style="list-style-type: none"> <li>✓ Rubber</li> <li>✓ Food Processing</li> <li>✓ Dairy</li> <li>✓ Tyre</li> <li>✓ Printing</li> <li>✓ Cattle feed</li> </ul>
6.	Energy audit of thermal utility system (list sectors)	<ul style="list-style-type: none"> <li>✓ Boilers</li> <li>✓ Steam System</li> <li>✓ Industrial Furnaces</li> <li>✓ Insulation and Refractories</li> <li>✓ Waste Heat Recovery Systems</li> </ul>

7.	Energy audit of electrical utility system (list sectors)	<ul style="list-style-type: none"> <li>✓ Electric Motors</li> <li>✓ Compressed Air System</li> <li>✓ HVAC &amp; Refrigeration System</li> <li>✓ Fans &amp; Blowers</li> <li>✓ Pumps and Pumping System</li> <li>✓ Cooling Towers</li> <li>✓ Lighting System</li> <li>✓ DG Sets</li> <li>✓ Transformers</li> <li>✓ Capacitor Banks</li> </ul>	
8.	Instruments available	(a) Electrical (list the name of the instruments)	<ul style="list-style-type: none"> <li>✓ Power Quality Analyser &amp; Data Logger (Fluke 435)</li> <li>✓ Power Meter (Rishabh Rish Clamp Power 400 A AC-DC)</li> <li>✓ Tachometer</li> <li>✓ Lux Meter (Lutron LX-101A)</li> <li>✓ IoT Sensors</li> <li>✓ Monitoring System (Zerowatt)</li> </ul>
		(b) Thermal (list the name of the instruments)	<ul style="list-style-type: none"> <li>✓ Ultrasonic flow meter (Acron Controls TR-600H)</li> <li>✓ Thermal Imager (FLIR E5)</li> <li>✓ Thermometer digital (Professional, Testo 1113)</li> <li>✓ Thermometer digital non-contact type (Fluke 62 Max)</li> <li>✓ Flue Gas Analyser (Testo)</li> <li>✓ Pressure Guage (Wika)</li> <li>✓ Humidity Sensor (Testo 605i)</li> <li>✓ Differential pressure manometer digital (Testo 510i)</li> <li>✓ Anemometer (Mastech MS6250)</li> </ul>

**\*Bio data of Certified Energy Auditor**

1	Name of energy auditor	Richu Zachariah	
2.	Qualifications.	M.S. by Research- Energy Science & Engineering- IIT Bombay M.Tech- Energy Engineering- NIT Trichy B.Tech- Mechanical Engineering, MACE Kothamangalam	
3.	Experience. (use additional sheet if required)	Over 5 years of experience in Energy Audit.  Currently working as Head- Energy Intelligence at Alphageek  Former Assistant Director at Kerala State Productivity Council	
4.	Residence(with STD)		
5.	Mobile	+91 9400770648	
6	Email address	<a href="mailto:richuzachariah@zerowatt.energy">richuzachariah@zerowatt.energy</a> ; <a href="mailto:richuzachariah@gmail.com">richuzachariah@gmail.com</a>	
7	Date of certification as Energy Manager or Energy Auditor (pl specify) by Bureau of Energy Efficiency (BEE) ( if not appeared list as nil	Energy Manager- 1 <sup>st</sup> May 2018 Energy Auditor- 22 <sup>nd</sup> April 2019	
8	Date of passing the examination in “Energy Performance Assessment for Equipment and Utility Systems”	22 <sup>nd</sup> April 2019	
9	Examination Registration Number of (i) Energy Manager (ii) “Energy Performance Assessment for Equipment and Utility Systems” ( In case of Certified Energy Auditor, please write CEA Registration No.)	EA-27720	

10	Certificate Registration Number of (i) Energy Manager (ii) "Energy Performance Assessment for Equipment and Utility Systems"	(i) 15060 (ii) 9692/19
11	Are you a BEE accredited Energy auditor. If so: Date of accreditation Accreditation No.	No
<b>Remarks ( if any)</b>		
<ul style="list-style-type: none"> <li>➤ Building Energy Efficiency Expert</li> <li>➤ ISO 14064 GHG Lead Verifier/ Lead Validator</li> <li>➤ ISO 50001:2011 EnMS Lead Auditor</li> </ul>		

I hereby state that information furnished above is true and correct to the best of my knowledge.

Place: Mulanthuruthy  
Date:26.12.2024



Name: Richu Zachariah  
Designation: Head- Energy Intelligence

# RICHU ZACHARIAH

**Phone:** +91-9400770648  
**Email:** richuzachariah@gmail.com



**A Certified Energy Auditor looking for an opportunity to learn and use diverse skills in developing a sustainable future for the mankind.**



## *Professional Experience*

### **ALPHAGEEK ENTERPRISES PRIVATE LIMITED**

**Head- Energy Intelligence** [Apr 2024 – Till date]

Leads Alphageek's innovative efforts in enhancing energy efficiency through strategic Energy Intelligence. Collaborates with the sales team on client interactions while analyzing pilot installations and conducting physical audits at customer facilities. Their leadership plays a critical role in driving successful projects and achieving company goals.

### **KERALA STATE PRODUCTIVITY COUNCIL, KALAMASSERY**

**Assistant Director** [January 2023 – Mar 2024]

At KSPC, my experience in energy management covers diverse sectors such as process industries, commercial buildings, and power distribution. I specialized in energy audits, solar power plant design, power network system analysis, compliance analysis with energy conservation codes, and building energy simulation. I actively participated in training programs and selection services focused on energy efficiency. Emphasizing Environmental, Social, and Governance (ESG) principles, I integrated sustainable practices to foster a greener future. My responsibilities involved conducting field studies, analyzing data, preparing reports, delivering presentations, and engaging in discussions with management to identify and execute energy conservation initiatives.

### **AMAL JYOTHI COLLEGE OF ENGINEERING (AJCE), KANJIRAPPALLY**

**Assistant Professor in Mechanical Engineering** [July 2014- January 2023]

Dynamic faculty coordinator and chair, recognized for advancing academic programs and leading technical initiatives in energy management. Extensive expertise in energy auditing, having conducted audits for numerous institutions and companies while fostering key partnerships like the MoU with Athul Energy Consultants Pvt. Ltd. Proven track record in teaching, research, and industry collaboration, playing a crucial role in course development, securing awards, and guiding project teams in sustainable energy practices.

### **BEE Certified Energy Auditor (As freelancer)**

Conducted an energy audit for Kairav Chemofarbe Industries Ltd. in Mumbai as part of IIT Bombay's KISEM project. As Chief Energy Auditor of Amal Jyothi Energy Centre, ensured quality audits while assisting Athul Energy Consultants with ABAD Fisheries in 2022 and supporting Alenso Energy with Travancore Cements in 2019. Versatile expertise has led to significant contributions to key energy audit projects.

**Mechanical Subject Expert for Chegg India Pvt. Ltd.** [Feb 2018 – Dec 2019]



## *Certifications*

- ✓ Certified Energy Auditor- BEE under Ministry of Power, Govt. of India (from 2019)
- ✓ Certified Energy Manager- BEE under Ministry of Power, Govt. of India (from 2018)
- ✓ EnMs (Energy Management Systems) Lead Auditor – ISO 50001:2011 – BUREAU VERITAS (Till 2017)



## Education

Degree	Year of Passing	School/Institute	Board/University	Percentage/ Grade
MS by Research in Energy Science and Engineering	2023	Indian Institute of Technology Bombay	Indian Institute of Technology Bombay	CPI 9.82
M. Tech in Energy Engineering	2014	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	CGPA 8.91
B. Tech in Mechanical Engineering	2012	Mar Athanasius College of Engineering, Kothamangalam	Mahatma Gandhi University, Kottayam	79.59%
Class XII	2008	Technical Higher Secondary School, Aluva	Board of Higher Secondary Education, Kerala	93.16%
Class X	2006	F.A.C.T Township High School, Udyogamandal	Board of Public Examinations, Kerala	89.47%



## Fellowships received

- ✓ Indian Science Academies' Summer Research Fellowship Program at Indian Institute of Technology, Bombay  
Project: "Use of two dimensional and three-dimensional particle image velocimetry for flow measurements"  
Duration: May- July 2018



## Publications

### Journals

- ✓ Lingayat, Abhay, **Richu Zachariah**, and Anish Modi. "Current status and prospect of integrating solar air heating systems for drying in various sectors and industries." Sustainable Energy Technologies and Assessments 52 (2022): 102274.
- ✓ Ahmed T Okasha, Fahad Ghallab Al-Amri, Taher Maatallah, Nagmeldeen AM Hassanain, Abdullah Khalid Alghamdi, **Richu Zachariah**. "Numerical Study of Single-Layer and Stacked Minichannel-Based Heat Sinks Using Different Truncating Ratios for Cooling High Concentration Photovoltaic Systems." Sustainability 14.9 (2022): 5352.
- ✓ Fahad Ghallab Al-Amri, Taher Maatallah, **Richu Zachariah**, Ahmed T Okasha, Abdullah Khalid Alghamdi. "Novel trimmed heat extraction system for high-concentration photovoltaic in hot climate zones." International Journal of Energy Research (2022): 1-16.
- ✓ Fahad Ghallab Al-Amri, Taher Maatallah, **Richu Zachariah**, Ahmed T Okasha, Abdullah Khalid Alghamdi. "Enhanced Net Channel Based-Heat Sink Designs for Cooling of High Concentration Photovoltaic (HCPV) Systems in Dammam City." Sustainability 14.7 (2022): 4142.
- ✓ Fahad Al-Amri, Taher S Maatallah, Omar F Al-Amri, Sajid Ali, Sadaqat Ali, Ijlal Shahrukh Ateeq, **Richu Zachariah**, Tarek S Kayed. "Innovative technique for achieving uniform temperatures across solar panels using heat pipes and liquid immersion cooling in the harsh climate in the Kingdom of Saudi Arabia." Alexandria Engineering Journal 61.2 (2022): 1413-1424.
- ✓ **Richu Zachariah**, Taher Maatallah, and Anish Modi. "Environmental and economic analysis of a photovoltaic assisted mixed mode solar dryer with thermal energy storage and exhaust air

recirculation." International Journal of Energy Research (2021): 1-13.

- ✓ Denil Roy Joshua, **Richu Zachariah**, and D M Anumod. "Performance improvement in mixed-mode solar dryer with addition of paraffin-based thermal energy storage." Journal of Green Engineering 10.4 (2020): 1403-1418.
- ✓ Taher Maatallah, **Richu Zachariah**, and Fahad Gallab Al-Amri. "Exergo-economic analysis of a serpentine flow type water based photovoltaic thermal system with phase change material (PVT-PCM/water)." Solar Energy 193 (2019): 195-204.
- ✓ Blessy Joy, Jacob Philip, and **Richu Zachariah**. "Investigations on serpentine tube type solar photovoltaic/thermal collector with different heat transfer fluids: Experiment and numerical analysis." Solar Energy 140 (2016): 12-20.
- ✓ Naresh Kumar Gurusala, **Richu Zachariah**, and Mozhi Selvan V. Arul. "Effect of EGR on combustion and emissions characteristics of a CI engine fuelled with waste chicken fat biodiesel." Applied Mechanics and Materials 592 (2014): 1481-1486.

### Conference proceedings

- ✓ Riby John, S. Sheik Mohammed, and **Richu Zachariah**. "Variable step size Perturb and observe MPPT algorithm for standalone solar photovoltaic system." IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS). IEEE, 2017.
- ✓ M. Chithra Pournami, B. Sreenath, and **Richu Zachariah**. "A comprehensive review on the recent advancements in PV panel cooling techniques using phase changing materials." IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS). IEEE, 2017.
- ✓ V. N. Amalnath, and **Richu Zachariah**. "A simple control unit for temperature dependent forced water cooling in solar CPV/T collector." IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS). IEEE, 2017.
- ✓ Surej Kulangara Abraham, **Richu Zachariah**. "A review on e-waste hazards, management and recycling techniques." National Conference on Waste to Energy, Carbon Capture, and Storage. National Institute of Technology, Rourkela, 2017.

### Book chapters

- ✓ Kiran George, Kevin John Kuruvilla, Rahul George Rajeev, Nandu Jayan, and **Richu Zachariah**. "Design and fabrication of modified black soldier fly compost bin." Emerging Technologies for Sustainability (2020): 605-611.
- ✓ R Rahul, Ronald Raphel, C P Ignasious, Joel Ignatius, and **Richu Zachariah**. "Design and fabrication of a fully automated solar panel cleaning module with microfiber brush." Emerging Technologies for Sustainability (2020): 579-585.
- ✓ **Richu Zachariah** and V. N. Amalnath. "Feasibility study of liquid- based spectral beam splitting technique for solar panel cooling." Green Buildings and Sustainable Engineering (2020): 3-18.



## Recognitions and Achievements

- ✓ Current Treasurer and former Joint Secretary (Academics) of Society of Energy Engineers and Managers (SEEM), Kerala chapter
- ✓ Resource person of Agency for Non-Conventional Energy and Rural Technology (ANERT/RP/0013)
- ✓ Building Energy Simulation Expert- Empaneled with Energy Management Centre, Kerala (EMC/BESE/2022/111)
- ✓ Resource person for Additional Skill Acquisition Program (ASAP) - Design, Align and Train (DAT) scheme- Machining Technician Course.
- ✓ Resource person for 10 invited talks
- ✓ Topper with gold medal for the NPTEL course on "Engineering Thermodynamics" offered by IIT Kanpur
- ✓ 10 pointer for all core courses completed as part of PhD course work at IIT Bombay
- ✓ Reviewer for following International Journals as well as Conference Proceedings:
  1. Solar Energy
  2. Applied Energy
  3. Renewable Energy Focus

4. The Open Fuels & Energy Science Journal
5. Desalination and Water Treatment
6. Energy Conversion and Management



## Professional Memberships

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- ✓ Society of Energy Engineers and Managers (SEEM)- Life Member (317117311609)
- ✓ International Solar Energy Society (ISES)- Member



## Personal Profile

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Address of Communication	Kanakkassery House Door.No: V293-B Painumkal Para Karakattu Kunnu Road Mulamthuruthy, Ernakulam Kerala-India Pin: 682314
Marital Status	Married
Date of Birth	22 <sup>nd</sup> January 1991
Software Proficiency	eQuest, MATLAB, PYTHON, TRNSYS, HOMER
Linguistic Proficiency	English, Malayalam, Tamil

## References

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### **K. Sreekumar**

Retired Group Director, Metallurgy & Materials Group,  
VSSC, ISRO, Trivandrum  
Adjunct Professor  
Department of Metallurgy  
Amal Jyothi College of Engineering  
Kanjirappally, Kerala, India  
Contact No.: +91 9496719817  
Email: [ksreekumar@amaljyothi.ac.in](mailto:ksreekumar@amaljyothi.ac.in)

### **Shanavaz K. M.**

Joint Director  
Kerala State Productivity Council  
Kalamassery, Kerala, India  
Contact No.: +91 9447816767  
Email: [kmshanavaz@kspconline.co](mailto:kmshanavaz@kspconline.co)

## Declaration

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I hereby declare that all the information furnished above are true to the best of my knowledge and belief.

Date: 20.09.2024

Place: Mulanthuruthy

Richu Zachariah

## Contact

9961101994 (Mobile)  
sooraj@alphageek.in

[www.linkedin.com/in/sooraj87](http://www.linkedin.com/in/sooraj87)  
(LinkedIn)

## Top Skills

Entrepreneurship  
Startup Development  
Energy Efficiency

## Languages

Malayalam (Native or Bilingual)  
Hindi (Professional Working)  
French (Elementary)  
English (Native or Bilingual)  
Tamil (Limited Working)

## Certifications

Effective Listening  
Advanced Power System Analysis with ETAP  
Power System Analysis with ETAP  
Power System Testing with Omicron  
Advertising with Meta

# Sooraj Surendran

Founder/COO @ AlphaGeek | Revolutionizing Energy Management  
Trivandrum, Kerala, India

## Summary

With over 13 years of experience in the energy sector, I am passionate about creating innovative solutions that address the significant issue of energy wastage in commercial and industrial facilities. As a founder and director of AlphaGeek, I lead a team of incredible people, interdisciplinary thinkers, researchers, and makers who work on developing and deploying our flagship product, the Zerowatt Energy Intelligence System.

The Zerowatt system employs IoT sensors to continuously monitor and gather precise energy consumption data from various electrical systems. This data is then transmitted to the cloud, where it is analyzed by AlphaGeek's proprietary AI algorithms to provide actionable insights for reducing energy wastage, improving operational processes, and boosting business sustainability by facilitating reductions in carbon emissions. This innovative approach has earned us multiple awards, patents, and recognitions in the energy domain, as well as the trust and satisfaction of our clients.

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## Experience

### AlphaGeek

Founder and Director

August 2020 - Present (4 years 2 months)

Kochi, Kerala, India

Alphageek, is an innovative technology startup, leveraging IoT, cloud computing, and AI/ML to revolutionize energy management in industries. Our flagship product, the 'Zerowatt Energy Intelligence System,' addresses the significant issue of energy wastage in commercial and industrial facilities.

It employs IoT sensors to continuously monitor and gather precise energy consumption data from various electrical systems. This data is then transmitted to the cloud, where it is analyzed by Alphageek's proprietary AI algorithms to provide actionable insights for reducing energy wastage, improving operational

processes, and boosting business sustainability by facilitating reductions in carbon emissions. This innovative approach not only addresses the urgent need for energy conservation but also opens up vast opportunities in a market with a growing consciousness towards sustainable energy use. With successful installations across diverse sectors and a promising future product pipeline, Alphageek is poised for rapid growth, making it an exciting prospect for individuals passionate about making a tangible impact in global sustainability efforts.

I'm responsible for the day to day activities of the company, aligning and coordinating the brains and the muscles to deliver sustainable results.

### Delab Research

Co-Founder and Director

September 2020 - Present (4 years 1 month)

Trivandrum, Kerala, India

We are an R&D startup based out of Trivandrum, consisting of a team of interdisciplinary thinkers, researchers and makers, working on real-world challenges such as household energy monitoring, renewable energy forecasting, indoor real-time location.

Our core team of engineers, research scientists and business professionals have over 10 years of individual professional and academic enterprising experience

My responsibilities include the day to day activities of the company, coordinating with clients, vendors and consultants to deliver the best possible results.

### EXILIS TECHNOLOGY PRIVATE LIMITED

General Manager

November 2019 - Present (4 years 11 months)

India

Generating business development plans to support the company's financial objectives.

Supporting core teams and key project managers in the project management, handling of communications with existing clients.

Defining long-term strategic goals and developing effective and precise plans to implement them.

Allocation of budget resources, formulation of policies, coordinating business operations, monitoring and motivating staff, managing operational costs, improving administration processes, engaging with vendors, hiring and training of employees are some of the responsibilities associated with my current job profile.

### Afaq Al Musana Trading and Contracting LLC

Electrical Engineer

January 2012 - November 2019 (7 years 11 months)

Muscat, Oman

Testing and Commissioning of 11kV, 33kV and 132kV Equipments and Systems.

Routine testing of CTs and VTs

Performed tests on 11 kV,33kV Power Transformers, Cables and Switchgears of both AIS and GIS type

Relay Programming and Testing on these systems of make, Siemens, SEL, Alstom etc using Primary Injection test kit like Freja and Omicron. Worked with Omicron CPC100, CT analyzer and CMC 256 and 356.

Performed Relay coordination, load flow studies and short circuit studies using ETAP

### Score Study Centre

Finance Manager

February 2011 - February 2012 (1 year 1 month)

Thiruvananthapuram, Kerala, India

Finance Manager and Co-Founder of Score Study Centre.

### Semantics

Centre Admin

July 2011 - December 2011 (6 months)

Chennai, Tamil Nadu, India

Overview and Implementation of Primary Activities,  
Management of Assets and employees.

Co-ordination with customers and complaint redressals

Part-time IELTS Trainer

Iyer and Mahesh

Project Supervisor - Electrical ( College Of Architecture, Trivandrum)

February 2011 - July 2011 (6 months)

Trivandrum

Project Supervision and Management

Material Procurement and Asset Management

Labour Management

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## Education

University of Kerala

Bachelor of Technology, Electrical and Electronics · (2005 - 2010)

Bishop Moore Vidyapith

High School, High School/Secondary Certificate Programs · (2000 - 2005)

Indian School Al Wadi Al Kabir

3-7, Middle School · (1995 - 2000)



# SHINOJLAL K

## INDUSTRIAL PLANNING MANAGER

### PROFILE SUMMARY

Industrial Planning Manager with 11 years of comprehensive experience in maintenance management, material procurement, contract management, budgeting, planning & team co-ordination for manufacturing plant operations. Grounded by hands-on mechanical maintenance expertise and enhanced by strategic skills acquired from recently completed PGDM.

 9445002608

 [shinojcet@gmail.com](mailto:shinojcet@gmail.com)

B094, Assetz Marq Phase-1  
Whitefield, Bengaluru-560067

### Education

- Executive PGDM  
NSB (IIM-A), 2021-22
- B. Tech (Mechanical Engg.)  
College of Engineering,  
Trivandrum, 2005-09

### Technical Skills

- Asset Based Planning
- PPAC
- Proficiency in SAP ERP
- TPM, KPI, SOP
- Procurement & Contract Management
- Vibration Analysis
- Proficiency in MS Excel, and PowerPoint
- MIS
- ISO 9001, 14001, 18001

### Management & Soft Skills

- Team Leadership & Collaboration
- Strategic Planning
- Budgeting & Financial Analysis
- Project Management
- Communication

### Certification



Harvard ManageMentor



ISO:18436 Vibration Analyst  
Level-II



National Safety Council  
certificate for 'Safety in  
material handling'

### CAREER PROFILE

#### Jan'2023 – Present

SENIOR MANAGER, Maintenance Planning

NTPC Talcher Kaniha Super Thermal Power Station (6X500 MW)

#### Responsibilities

- Planning & scheduling predictive, preventive, and breakdown maintenance jobs along with plant overhauls.
- Preparing and controlling an OPEX of ~ 350 Cr Rs, CAPEX of ~180 Cr Rs, and Purchase Budget of 160 Cr Rs.
- Optimizing contracts for better cost-effectiveness and performance.
- Managing material procurement and inventory control to ensure availability of necessary resources.
- Co-ordination of Fuel Management activities (coal transportation, stocking, and consumption)
- Conducting Higher Management meetings
- Generating MIS reports (work status, cost analysis, breakdown analysis, etc.) and presenting findings to higher management.
- Serving as the custodian of the 'Permit to Work' system and ensuring safe work practices.
- Team Leader for structural inspection and re-erection projects, ensuring adherence to safety and quality standards.

#### Aug'2021 – Dec'2022

Executive PGDM from NSB, Noida

- Achieved proficiency in Business Strategy, Economics, Business, Decision Science, Operations Research, Data analytics, Financial Reporting & Analysis, Financial Markets, Managerial Computing, Market Research, Global Energy Scenario, and Human Resource Management.

**Jun'2017–Jul'2021**

MANAGER, Mechanical Maintenance

NTPC Chennai Thermal Power Station (3X500 MW)

**Responsibilities**

- Served as Maintenance Manager for sea water, service water, and fuel oil systems, including pumps, fans, gearboxes, fluid couplings, steel structures, pipelines, cooling towers, and Fire Detection and Protection Systems.
- Procurement of necessary equipment and spare parts to ensure readiness for maintenance tasks.
- Contract Management: Administered around 10 contracts annually, with a combined value of approximately 8 crore INR, covering a wide range of services including annual maintenance, PU coating, pipeline erection, and painting.
- Manpower Management: Oversaw an extensive team comprising 25 contract supervisors and over 150 contract workers, ensuring smooth maintenance activities.
- Led the erection and commissioning of key systems, including fuel oil tanks, HFO & LDO pipelines, sea water, cooling water, service water, DM water systems, and fire detection and protection systems.

**Sept'2010–May'2017**

ASST. MANAGER, Maintenance Planning

NTPC Chennai Thermal Power Station (3X500 MW)

**Responsibilities**

- Managed predictive maintenance, including vibration analysis, to improve plant reliability and efficiency.
- Short-term planning of plant operation and maintenance activities.
- Planning & follow up of plant overhauling activities.
- Preparation of O&M budget.
- Load testing of Lifts, heavy vehicles, and T&P.
- Procurement of common Spares, Consumables and T&P to ensure availability of necessary resources for maintenance.
- Co-ordination of maintenance contracts initiation and processing.
- Site inspections to ensure adherence to maintenance schedules and safety standards.
- Co-ordination seasonal preparedness works like monsoon preparedness and summer preparedness.

**Oct'2009–Aug'2010**

ASST. MANAGER, Sales & Marketing

Mahindra & Mahindra Automotive Ltd

**Responsibilities**

- Overseeing sales & marketing activities at Chennai, Coimbatore, Salem and Tirupur dealerships of Mahindra commercial vehicles.

- Achievements**
- **Team leader - Implementation of ERP Software 'Anurakshan'** at NTPC Chennai Thermal Power Station: Managed a team of 20 engineers from operation, maintenance, contracts, material procurement and finance departments for creating master data and rolling out the ERP software. This was a huge learning opportunity in how to create & manage AGILE teams in a Functional Organization.
  - **Team leader - Migration from 'Anurakshan' to SAP ERP:** Managed a team of NTPC engineers and vendors to transfer all systems, processes, and master data to SAP ERP.
  - **Improved availability of in Fire Detection and Protection System** at NTPC Chennai Power Plant: Frequent leakages and system non-availability due to Coastal Corrosion is solved by replacing the original MS pipes with high-quality GI pipes and strategically placed isolation valves. This significantly improved system reliability and safety for critical equipment like fuel tanks, oil tanks, and transformers.
  - **Successful Overhaul of Sea Water Supply System:** Addressed frequent leakage issues in the critical sea water supply pipelines. Innovatively planned and executed the replacement of leak-prone underground pipes with overground pipes, significantly reducing maintenance issues and improving system reliability.
  - **Condenser Cooling Water Pumps Vibration Analysis:** Led the successful troubleshooting of recurring high vibration-related breakdowns in five 3 MW vertical condenser cooling water pumps. Identified inlet flow turbulence as the causal factor and instigated modifications to the inlet flow channel, effectively solving the problem.
  - **Broad-spectrum Vibration Analysis:** Successfully detected and rectified vibration issues in a variety of equipment including Coal Pulverisers, Cooling Tower Fans, and various other pumps and conveyor drives, contributing to the overall operational efficiency and reliability of the plant.
  - **Collaborated as a team member in the development of 'Corporate Strategy 2037' for North-Eastern Electric Power Corporation:** This project was awarded to NSB as a consultancy service. My contributions include study of emerging dynamics in Indian electricity sector, developing a diversification strategy including solar, wind and green H2, Financial Modelling, and Analysis of viability of the diversification strategy. The project was a great opportunity to interact & negotiate with the higher Management of NEEPCO and learn how the corporate strategies of large organizations are developed.
  - **Earned the regional championship title in the AIMA 'National Competition for Managers-2020'**

## RESUME

**ASWANTH V NAIR**

**Mob: +91-9995791712**

**Email: aswanthvn92@gmail.com**

### Objectives:

To strive for excellence and to work hard towards a challenging position, where I can apply my technical and analytical skills efficiently for the upbringing of the company. Studying and understanding the components involved in my field and exploring it, giving it all I can.

<b>ORGANISATIONAL EXPERIENCE</b>		
<b>Duration</b>	<b>Job Profile</b>	<b>Company</b>
<b>Mar-22 to Present</b>	Operations Manager	Alphageek Enterprises Pvt Ltd
<b>Sep-19 to Jan-22</b>	Project Engineer	Exilis Technologies Pvt Ltd
<b>Dec-18 to Jun-19</b>	District Technical Manager	Unitac Energy Solutions Pvt Ltd
<b>Mar-18 to Sep-18</b>	Project Coordinator (Idea Project)	Indus Towers Ltd
<b>May-15 to Jan-18</b>	O&M Engineer	American Tower Corporation (ATC India)
<b>Feb-15 to Apr-15</b>	Quality Inspection & Audit Engineer (Electrical & Civil)	Clean Tech Tele Tower Services Pvt Ltd
<b>Sep-14 to Jan-15</b>	Electrical Supervisor	Palathra Constructions Pvt Ltd

### Operations Manager (Alphageek)

- Worked in a startup environment.
- IoT energy technology domain.
- Focus was primarily to bring in sales and establish market presence.
- Handled the technical operations side for pilot installations and commercial installations.
- Handling new business verticals other than electricity.
- Software support for proprietary web application setup and configurations.
- Managing a team for field works - Installations, Energy Audits & Site Audits.

### Project Engineer (Exilis Technologies)

- Construction of retail stores for RRL – Reliance Retail Limited.
- Supervision of electrical, civil & interior works.

### DTM (Unitac Energy Solutions)

- In-charge of 480 sites in Kollam district.
- Maintaining network uptime as per SLA with customer.
- Managing a team of 30 technicians for carrying out the O&M activities.
- Coordination with Surveillance team for proper alarm escalation.
- Coordination with SME team for complaint closure.
- Taking necessary steps to reduce diesel consumption & to optimize P&F costs.
- Maintaining sufficient stock of child assets (Rectifier Modules, DG Battery/Cracking System and BB Cells) in the stock point by adhering to the iMapp processes – STN & CAM.
- Conducting monthly meetings to communicate performance assessment of technicians.

**Deployment** (Indus Towers)

- Handled deployment responsibilities of idea optional upgrades for Kerala circle, from work allocation to RFAI declaration to customer.
- Work allocation to different vendors and follow up for completion within the target timeline.
- Maintaining project tracker.
- Billing support, Collecting work details & raising PR and PO in ERP.
- Attending customer meetings for fixing targets and timeline.
- RFAI declaration for work completed sites in ISQ.

**Cluster Engineer** (ATC)

- In-charge of 138 sites in Chennai.
- Maintaining network uptime as per SLA with customer.
- Doing preventive maintenance activities & quality correction to keep site infra in good working condition.
- Optimization of available assets for maximum utilization at sites to reduce budget consumption.
- Taking necessary steps to optimize P&F costs.
- Maintaining good relationship with site owner for smooth site operations.

**ACHIEVEMENTS**

- Maintained 100% uptime in 86 sites with zero outage.
- Achieved 99.994% uptime in Sep-17 which was the highest in the cluster.

**Special Projects** (ATC )

- ZTS Dismantling (A Class assets, Tower & Shelter) and initiation for FAR updation.
- Coordination with vendor & circle SCM for dismantling & material movement to WH.
- Coordination with circle sales & circle EMG for site termination in Tarantula.
- Coordination with circle finance for FAR updation as per target set by corporate.
- Attending weekly concall with Regional EMG head.

**Repair & Refurbishment** (ATC erstwhile Viom Networks Ltd)

- Segregation, repair & post-repair QC of DG's, PIU's/AMF's, Servo Stabilizers, Battery Banks, AC's & FCU's, Power Plants and Rectifier Modules.
- Maintaining excel backup data.

### **Additional Responsibility's Entrusted**

- Coordination with O&M activities.
- SRN, ATN and MRN supporting in SAP.
- Coordination with vendor & SCM for SRN and ATN completion
- Coordination of Installation & Commissioning of DG's, AC's, BB's, PP's and PIU's.
- Bill verification support.
- Material Management SAP Operation support.
- Tracking Material ageing status for warranty related issues.
- Preparing Asset master data for SAP Vs PV validation.
- PM, PV and quality audit data support.

### **Quality Auditor** (Cleantech Tele Tower Services)

- Worked under high task pressure short time projects.
- Looking All infrastructure & Implementation work Execution (Civil, Electrical & Tower erecting)
- Performing electrical AT in ATC sites for assuring quality and standards.
- Familiar with standard types and sizes of cables, glands and GI strips, Earthing schemes, alarm extension, automation checking and site load calculation for infra upgradation requirements.
- Conducting Surveys (2G, 3G, 4G, OFC & Mini Surveys) for Indus Towers Ltd.

### **Additional Responsibilities Entrusted**

- Familiar with Civil works (From tower foundation to post erection tower AT).
- Conducting ATs for Tower foundation (GBT), Tower Base (RTT), Tower AT(Angular, Tubular & Hybrid), DG foundation, shelter foundation, BTS foundation, AC foundation and BB foundation.

### **Electrical Supervisor** (Palathra Constructions)

- Supervision of Electrical and Civil works in Indus telecom sites
- On-site works supervision and post work AT assistance.
- Surveying (2G, 3G, 4G), Load calculation for infra upgradation requirements.
- Taking optimum measurements for cable laying according to rated load and supervision of the work.
- Taking optimum measurements for GI strips for earthing and supervision of the work.
- Supervision of installation and commissioning of Battery banks, PIUs, and Power plants.
- Site alarm extension and automation of DG sets.
- ACDB and DCDB installation and powering up.

<b>Personal Profile</b>				
<b>Name</b>		ASWANTH V NAIR		
<b>Marital Status</b>		Single		
<b>Permanent Address</b>		Sankaravilasom, Muthoor P.O, Thiruvalla Pathanamthitta, Kerala - 689107		
<b>Date of Birth</b>		14-11-1992	<b>Age</b>	30
<b>Schooling &amp; College</b>	<b>Academics</b>	<b>University / College</b>	<b>% of Marks</b>	<b>Year of Passing</b>
	<b>10<sup>th</sup></b>	STATE SYLLUBUS, KERALA	85	2008
	<b>Plus One &amp; Plus Two</b>	BOARD OF HIGHER SECONDARY, KERALA	81	2010
	<b>Graduation (B.Tech)</b>	KERALA UNIVERISITY	62	2014
<b>Languages Known</b>		Malayalam, English, Tamil, Hindi		



# MANEESH M- D EEE, B.Tech

## ELECTRICAL ENGINEERING

Name	MANEESH. M
Address:	ASHTAPATHY, THEKKEVILA Kollam-16, Kerala, India
Contact Number:	+91-8089398839
Best time of day to contact:	Anytime
E-mail:	maneeshm88@gmail.com

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### ADDITIONAL SKILLS

- Holder of Indian Driving Licence (Both LMV and M/C with Gear)
- Skilled in Electrical wiring and installation
- Knowledge of safety requirements and standard procedures.
- Trouble shooting of electrical system.

### COMPUTER SKILLS

- Internet
- Microsoft Office 2013
- Microsoft excel
- AUTO CAD
- Electrical CAD
- REVIT MEP
- DIALUX SOFTWARE

### CAREER OBJECTIVE

I'm seeking an exciting and challenging position within a dynamic and innovative organization, which offers variety and the opportunity for both business and personal growth. My goal is to play a pivotal role in an organization where I achieve results by making a measurable contribution through creative leadership, teamwork, passion enhanced by the drive to succeed.

### PERSONAL SUMMARY

I'm an Electrical Engineer with over Six year Experience in Design, Wiring and execution of various Electrical installation Work. I have passed B Tech in Electrical and Electronics Engineering and also a Diploma holder in Electrical and Electronics Engineering.

## QUALIFICATIONS SUMMARY

Educational Qualifications	Institute	Board/University	Year
B Tech in Electrical And Electronics Engineering.	VK College of Engineering & Technology, Paripally, Kollam (Dist). S-India	Kerala University Kerala State.	2010-2013
Diploma in Electrical And Electronics Engineering.	Sree Narayana Polytechnic College, Kottiyam, Kollam(Dist).Kerala(State) S-India	Department of Technical Education, Kerala State	2006-2009
Pre-Degree/ Plus Two	Mayyanad Higher Secondary School, Mayyanad, Kollam (Dist), Kerala (State), S-India.	Board of Higher Secondary Education, Kerala State	2004-2006
S.S.L.C.	Krist Raj Higher Secondary school, , Kollam (Dist), Kerala (State),S-India	Board of Public Education, Kerala State	2004

## WORK EXPERIENCE

- **AMITECH INDIA PVT LTD** Working as Field Engineer.( 1 years)
- Site Supervisor at **TRINITY COLLEGE OF ENGINEERING, TRIVANDRUM**(1.3years)
- Junior Engineer at **PROTECTION & AUTOMATION ENGINEERS**(1.3years)
- Electrical Engineer at **IBRILINE L.L.C,MUSCAT[ H T & L T ]** [HOLDER OF CEP LICENSE UNDER MAJAN ELECTRICITY COMPANY SAOC OMAN] (2years)
- Electrical Engineer at **PALACE ELECTRONICS BAHRAIN** [Central Emergency Battery System-AUTHORISED CERTIFIED ENGINEER FROM TEKNOWARE FINLAND] ( 1 years)
- Project Engineer at PEACOCK RESOURCES LLP, Malappuram
- Still working as Installation Manager at ALPHAGEEK Enterprises Pvt Ltd ,Thiruvananthapuram

## ENGINEERING PROJECTS

- MICROCONTROLLER BASED POWER FACTOR CORRECTION  
Diploma 2009 Duration: Two months.
- HYBRID POWER GENERATION OF WIND AND EFFECTIVE SOLAR TRACKING  
BTech EEE 2013 Duration: Four months.

## ADDITIONAL MERITS

- Implant Training at 66kV GIS Sub Station, Trivandrum
- **Auto CAD** (Level 1 & Electrical 2010), Certificate NO: 1VZGCHUABW, 1QXQ330366 Autodesk, CAD Center, Kottiyam, Kollam.
- **REVIT- MEP2015**
- **DIALUX SOFTWARE**

## PERSONAL DETAILS

Address : Ashtapathy Thekkevila P OKollam-691016

Contact No. : +91-8089398839

E-mail : [maneeshm88@gmail.com](mailto:maneeshm88@gmail.com)

DOB : 07/10/1988

Passport No : L4735984

Marital Status : Married

Strength : Hardworking, Determination, Ability to learn and adapt,  
Positive Attitude, Dedication, Interpersonal Skills.

Languages Known : English, Malayalam,Hindi &Tamil.

Hobbies : Cricket, Listening to Music, Reading, Travelling.

## DECLARATION

*I do hereby declare that the information furnished above is true to the best of my knowledge. I bear the responsibility for the correctness of the above mentioned particular.*

KOLLAM, KERALA, INDIA

MANEESH M

04/04/2023

