

## CURRICULUM VITAE

### **Rajesh Kumar Singadiya**

Accredited Energy Auditor (AEA-0284)

Energy Expert & Director, Empirical Exergy Private Limited,

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### **PROFESSIONAL INTEREST:**

- Detailed Thermal & Electrical Energy Audit (As per Energy Conservation Act -2001)
- Mandatory Energy Audit, M & V audit (As per PATScheme)
- Energy Management System(ISO:50001:2011)
- Energy Conservation Building Code-2017 &MP-ECBC
- System Designing (HVAC, Utility, Solar& Biomass Based PowerPlant).
- Applied Research (Energy Conservation)

### **QUALIFICATION**

Year of Passing	Degree/ Discipline	Institute
2018	Accredited Energy Auditor(AEA-0284)	Bureau of Energy Efficiency, Ministry of Power, Govt. of India
2017	Pursuing PhD in Chemical Engineering under faculty of Energy & Environment from RGPV M.P.	RGPV, Bhopal, M.P.
2016	Lead Auditor ISO 50001:2011	FICCI, New Delhi
2009	Certified Energy Auditor (CEA-7271)	Bureau of Energy Efficiency, Ministry of Power, Govt. of India
2007	M. Tech in Energy Management	School of Energy & Environment Studies DAVV,
2003	B.E. in Chemical Engineering	U.E.C., Ujjain

### **WORK EXPERIENCE**

- **Total Working Experience 12 Years** as an “**Energy Auditor & Energy Management consultant**” in different sector like; Railway, Cement, Chemical, Paper and Pulp, Iron & Steel, Automobile & Engineering sector, Solvent Extraction, Pharmaceutical Industries (Formulation & Bulk Drug), Number of Commercial & Institutional Buildings.

## **CONSULTANCY FOR SOLAR PROJECT:**

 1MW Solar Project consultancy for M/s. Bajrang Agro Industries Pvt. Ltd., Dhar

## **ENERGY AUDIT ASSIGNMENT:**

1. Mandatory Energy Audit of the **M/s Rail Coach Factory at Kapurthala**, Panjab
2. Detailed Energy audit of **M/s Lumding Railway Station & DRM Office Building**, Lumding Assam.
3. Detailed Thermography of Electrical Panel **M/s. IOCL, Mangliya**, Indore Terminal
4. Detailed Energy Audit of the compressed air system of the **M/s Grasim Industries Limited (Chemical Division), Birlagram**, Nagda, Dist Ujjain, M.P.
5. Detailed Energy audit of the **M/s Surya Roshni Limited**, Hindupur, A.P
6. Detailed Energy audit of Cooling Towers of the **M/s Mondelez India Foods Private Limited**, Malanpur, Dist Bhind M.P.
7. Detailed Energy Audit, Harmonic Analysis & Thermography of **M/s. AVTEC Limited**, Pithampur, Dhar
8. Energy audit of the **M/s Mahle Engine components India Private Limited**, Kheda, Pithampur M.P.
9. Detailed Energy Audit & Harmonic Analysis of **M/s. Pinnacle Industries Ltd.**, Pithampur, Dhar
10. Detailed Compressor Air Audit **M/s. HIM TEKNOFORGE LIMITED, PITHAMPUR**, Dhar
11. Detailed Energy Audit of **M/s Insulator & Electrical Company, Mandideep**, Bhopal
12. Detailed Thermal Audit of Boiler, Steam Distribution network & Thermography of **M/s. Kriti Nutrients Limited.**, Dewas, M.P.
13. Detailed Energy Audit of the **M/s Bajrang Agro Industries Private Limited**, Pithampur, M.P.
14. Detailed Compressor Audit of **M/s. The Malegaon Co-op. Spinning Mills Ltd, Malegaon**, Dist Nasik.
15. Detailed Energy Audit at **M/s Ruchi Soya Industries Limited**, Mangliya Indore, Shujalpur, Guna, Kota, Daloda, Baran etc.
16. Detailed Energy Audit of **M/s. Mittal Corp Limited., Unit –II**, Pithampur, Dhar
17. Detailed Energy Audit of **M/s. Aniraj Engineering & Consultants**, Dewas
18. Detailed Thermal Audit & Thermography of **M/s. NBR Cooling System Pvt. Ltd.**, Pithampur, Dhar

19. Detailed Energy Audit & Thermography of **M/s. Eagle Seed & Biotech Ltd, Kshipra,**  
Dewas
20. Detailed Energy Audit of **M/s APL Nishikawa Company Private Limited,** Gurgaon.
21. Detailed Steam Audit of the **M/s Modern Petrofiles,** Baroda,Gujarat.
22. Detailed Energy Audit of the **M/s M.P. Beer Products Limited,** Sanwer Road, IndoreM.P.
23. Detailed Energy Audit of **M/s Transwolrd Textile Private Limited,** Pithampur, DharM.P.
24. Detailed Energy Audit of the **M/s VoraWire Industries (India) Limited,** Sanwer Road  
Indore M.P.
25. Energy Audit of the **M/s The Emerald Height International School,** Indore M.P.
26. Energy audit of **M/s Maa Gayatri Hospital,** RatlamM.P
27. Energy Audit & Electrical Audit of the **M/s Canara Bank (premises & Estate),Guwahati**  
Circle offices, Guwahati.
28. Detailed Energy Audit at **M/s Parakh Agro Industries Limited,** Pithampur,M.P.
29. Detailed Energy Audit at **M/s Mahle Engine Components India Pvt Ltd.,** Pithampur, M.P.
30. Detailed Energy Audit at **M/s Rajat Cement Pvt Limited,** DharM.P.
31. Detailed Energy Audit at “ **M/s Sahakari Dugdh Sangh Maryadit**”,Indore, Chapara (M.P).
32. Detailed Energy Audit at “ **M/s Mahle Filter Systems (India) Limited**”, Parwanoo (H.P).
33. Detailed Energy Audit at “ **M/s Taj Stats Air Catering Limited**”, IGTA, Gurgaon, New  
Delhi
34. Detailed Energy Audit at “**M/s Pathankot Vehicleades Pvt.Limited**”, Pathankot,Punjab.
35. Detailed Energy Audit at “**M/s BPCL, Depot**”, POL, Bakaniya, Bhopal
  
36. Detailed Energy Audit at “**M/s Crompton Greaves Limited**”,(Railway Signaling  
Division), Pithampur
37. Detailed Energy Audit at “**M/s Baerlocher (India) Additive (P) Ltd.**”,Dewas
38. Detailed Energy Audit at “**M/s M.P. Dye-Chemical**”, Sanwer Road Indore
39. Detailed Energy Audit at “**M/s Atul Polychem**”, Mangliya,Indore
40. Investment Grade Energy Audit at “**M/s MPSIDC**”, Building Bhopal,
41. Investment Grade Energy Audit at “**M /s Board of Secondary Education** “building Bhopal
42. Energy audit at **M/s Sanchi Organic Pvt. Limited**”, Pithampur.
43. Energy Audit at “**M/s Sanchi Chemical Pvt. Limited**”,Pithampur.
44. Energy Audit at “**M/s Jubilant Food Works Limited**”,
45. Energy Audit at “**M/s Traction Sub-Station (TSS)**”Gurla,Kota.
46. Energy Audit of the **IGI Stadium, Dr. Karni Shooting Range, SPM Swimming Pool**  
**Talkatora and Major Dhyanchand Stadium.**

47. Energy audit of **DMW , Patiala** in association with Rites ltd
48. Energy Audit of **Airport Authority of India, Indore**
49. Energy Audit of **Satiya Paper Mill , Mukhatar ,Panjab**
50. Energy Audit of **National Green Tribunal, New Delhi.**
51. Energy Audit of **Khadi Gram Udhog Building and British Broadcasting Corporation, New Delhi**
52. Energy Audit of **CPWD and CGO Building,Ghaziabad.**
53. Energy audit of **Hotel Park, CP, New Delhi**

### **CONFERENCES / SEMINAR / WORKSHOPS / TRAININGS:**

- Keynote Speaker in refresher course for BEE Certified Energy Auditor & Energy Manager, organized by Green Tree in M.P. on 24<sup>th</sup> & 25<sup>th</sup> Feb 2019 at MPUVN, Bhopal.
- Expert lecture on “Building Envelope design for Energy Optimization” organization by Department of Mechanical , MITS, Gwalior under the sponsorship of TEQIP III on 7<sup>th</sup> Sep 2019
- Expert Lecture in “Short Term Training Programme” at UEC, Ujjain on “Industrial Safety and Management: New Challenges and Opportunities:
- Seven Energy conservation work shop in M/s Maruti, Gurgoan & Maneser plants with EMT International,Delhi.
- More than 20 Energy Conservation Expert Lecture in various engineering collage/ Institute in MP
- One-day Awareness and Training Program on “Remote Village Electrification” for Field Functionaries in District Narsinghpur, Satna, Jhabua, District Sponsored by MNRE , New Delhi.
- Workshop on “Energy Conservation Act- 2001 Implication for Industries & Scope of Renewable Energy” organized by NIIFE & SEES, DAVV,Indore.

### **JOURNAL PUBLICATION**

- Vishal Rathor, Amiteshpaul, Rajesh Singadiya, “**Energy Audit on Earth Moving Industries**”, International Journal on Emerging Technologies 4 (1): 169-176(2013).
- Nitish Kumar, Anjali, Rajesh Kumar Singadiya, Shubhranshu Shrestha, “**An Experimental Study of Design and Fabrication Details of Parabolic Solar Dish Collector for Water Heating**” International Journal of Science, Engineering and Technology, 2016, Volume 4 Issue2

## **TECHNICAL PAPER PRESENTATION:**

- Paper presentation on “**Energy Conservation and Demand Side Management (DSM) by Energy Audit in Filter Manufacturing Plant-Case Studies**” in national seminar “Environmental Concerns and Issues in Changing Business Scenario, ISBN: 978-93-5126-332-6” held by Shri Vaishnav School of Business Management, Shri Vaishnav Institute of Technology & Science, Indore.
- Paper presentation on “**Sustainable Development: Energy Audit A Tool For Optimisation Of Power Transmission Losses In Mechanical (Belt-Pulley) System**” in national seminar “Management Trends and Issues for Sustainable Business Development ISBN: 978-93-5174-461-0” held by Shri Vaishnav School of Business Management, Shri Vaishnav Institute of Technology & Science, Indore.
- Paper presentation on “**Sustainable Development By Removing Carbon Dioxide From Flue Gas**” in national seminar “Management Trends and Issues for Sustainable Business Development ISBN: 978-93-5174-461-0” held by Shri Vaishnav School of Business Management, Shri Vaishnav Institute of Technology & Science, Indore.

## **CONSULTANCY FURNISHED:**

 For the implementation of energy conservation Act 2001, worked as a team leader in the consultancy has provided to MPUVN under following projects:

- **ECAP-B2/08:** Preparation of list of Certified Energy Managers, Energy Auditor and Accredited Energy Auditors which work or reside in the M.P.state.
- **ECAP-B3/08:** Preparation of list of designated consumers and their energy Consumption of M.P.
- **ECAP-E15.2 :Consultancy for following demo projects:** Detailed energy audit of Govt. Building (Mantralaya and Urja Bhawan, Bhopal), Water pumping station/ sewage pumping station. Street lighting system/ traffic lighting system.

**OTHER RELATED ACTIVITIES:**

- Project of **AKVN, Indore** for “**Energy Efficient Street Lighting System Design & Implementation by Conventional and Non-conventional energy sources**”
- Preparation of ECSOs Tender Document for the Nodal Agency (**MPUVN, Bhopal**)
- Conduct **Detailed Energy Audit at Raj Bhawan, Bhopal** and **Design Renewable Energy System**(20kWpPVSystem,SolarWater Heating system capacity 2000Ltr /day,Waste Water Treatment of 50 m<sup>3</sup>/day,Vermi-Composting System for 1.2 ton waste)
- **Data Collection**(Electrical and thermal energy consumption) of the **Indore city for development of Indore as a solarCity**

Your sincerely,  
**Rajesh Kumar Singadiya**