

Curriculum Vitae



Personal details

Name : Anand Sinha
Sex : Male
Date of Birth : 16/04/1987
Current Position & Domain : Deputy Director (Energy, Technology & Safety Management)
Office Location : Regional Directorate - Kolkata
Languages : English and Hindi
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Professional Summary / Technical Expertise

- 1 More than 14 years of experience and have conducted more than 30 Detailed Energy/Water/ Safety Audits in various industries, Risk Inspections for **mega corporate clients**, Content Development (**E-Newsletter preparation containing Risk Mitigation measures and submission to corporate clients**), Preparation of Technical DPR, Risk Analysis.
- 2 Erection, testing & Commissioning of **LT switch gear** – vendor **STERLING & WILSON (MAKE SIEMENS) & HT switchgear**- vendor **STERLING & WILSON (MAKE SIEMENS)**, Motors, Power Distribution Board, Earth pits & Earth bus bar
- 3 Erection, testing & Commissioning of **Isolators, Circuit Breakers**
- 4 Erection & Testing and commissioning of **340 MVA (16.5 kv / 420 kv) Generator Transformer, 30 MVA Station Transformer, 20MVA Unit Aux. Transformer.**
- 5 Operation & maintenance of **Diesel Generators (1010 KVA) and HT & LT cables**
- 6 Schedule Checks Such as Weekly, monthly preventive maintenance of all **6.6KV Switchgears, PMCC, MCC Panels.**
- 7 Co-ordination with design and Engineering team, drawings clarification and follow-up
- 8 Planning, scoping, tracking & implementing project plans within preset budgets and deadlines.
- 9 Preparing project schedules / plans as per the requirements of the client.
- 10 Preparing layouts for project as per the process and material flow needs. Foreseeing performance bottlenecks and taking corrective measures to avoid the same
- 11 Overseeing site preparations and mobilizing contractors for carrying out erection of material handling plant.
- 12 Involved in commissioning and erection of 400 KV switchyard

Professional Experience

Company	Position	Period
ECC International (Republic of Philippines)	Process Consultant	January 2011 – July 2011
Abhijeet Projects Limited, Jharkhand	Energy Engineer (Electrical)	August 2011 – November 2012
Lombard, New Delhi	Risk Manager (Energy-Safety)	January 2013 – October 2013
Reliance ADAG	Assistant Manager (Risk Management Energy-Safety)	October 2013 – October 2015
National Productivity Council (Ministry of Commerce & Industry, Govt. Of India)	Deputy Director (Energy Management)	October 2015 - Present

Major Projects Experience

Name of Assignment	One Day Training Program on Energy Efficiency at MSME Fan Cluster, Bansdroni, Kolkata
Year	2016
Location	Bansdroni, Kolkata, West Bengal

Client	MSME- Developmental Institute, Kolkata
Main Project Features	Training on Energy Efficiency & conservation measures
Positions Held	Faculty
Activities Performed	Training, Preparation of Training Material etc. The stated workshop was attended by about 30 participants (first line engineers, supervisors, and workshop owners) from the fan manufacturing cluster. Technical modalities were briefed along with details. Majority of the session included discussion on topics like BLDC Motors & fans, Reduction of unbalance in 3-phase voltage, Power Factor improvement techniques, percentage loading of motors and use of Energy Efficient Motors etc.
Name of Assignment	Safety Audit in NTPC Farakka
Year	2016
Location	Farakka, West Bengal
Client	NTPC
Main Project Features	Safety Audit of the Entire Plant based on relevant IS codes
Positions Held	Team Member
Activities Performed	Electrical Safety Audit, Preparation & Submission of the entire report, Presentation to the client. All relevant process related details and documents were examined, and a detailed safety audit report was prepared after the thorough safety audit of the entire plant.
Name of Assignment	One Day Regional Workshop on Boilers
Year	2015
Location	Asansol, West Bengal
Client	Central Boiler Board
Main Project Features	Training in Thermal Utilities and Packaged Boilers
Positions Held	Faculty
Activities Performed	Imparted Training, Preparation & Submission of Report. The training was done and course material was prepared for dissemination of awareness on proper operational & maintenance practices of boilers covering major issues of Importance like fuel combustion, waste heat recovery, process steam management & FBC Boilers.
Name of Assignment	Energy Audit
Year	2016
Location	Kasba & Panpur, West Bengal

Client	Khadim's India Ltd.
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major areas covered were entire power distribution system, motor and feeder load survey, Compressed Air Network System, Localized HVAC System, Cooling Towers and Lighting. Savings to a tune of Rs. 16 lakhs were envisaged.
Name of Assignment	Safety Audit
Year	2016
Location	Kharagpur, West Bengal
Client	UAL, Kharagpur
Main Project Features	Safety Audit of the Entire Plant based on relevant IS codes
Positions Held	Team Member
Activities Performed	Detailed Safety Audit, Preparation & Submission of the entire report, and Presentation to the client. All relevant process related details and documents were examined, and a detailed safety audit report was prepared after the thorough safety audit of the entire plant.
Name of Assignment	Intensive Preparatory Training Course for Energy Managers & Energy Auditors
Year	2016
Location	Kolkata
Client	Representatives from various industries
Main Project Features	Training on Electrical & Thermal utilities & End use efficiency enhancement
Positions Held	Faculty Member
Activities Performed	Imparted Training, Preparation & Submission of Report
Name of Assignment	Intensive Preparatory Training Course for Energy Managers & Energy Auditors
Year	2017
Location	DVC, Chandrapura Training Institute
Client	Damodar Valley Corporation
Main Project Features	Training on Electrical & Thermal utilities & End use efficiency enhancement
Positions Held	Faculty Member
Activities Performed	Imparted Training, Preparation & Submission of Report

Name of Assignment	Detailed Energy Efficiency Study
Year	2017
Location	Budge-Budge, West Bengal
Client	Indian Oil Corporation Ltd.
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major areas covered were entire power distribution system, Boiler efficiency evaluation, and motor and feeder load survey, Compressed Air Network System, Localized HVAC System, Cooling Towers and Lighting. Savings to a tune of Rs. 8 lakhs were envisaged.
Name of Assignment	Detailed Energy Audit
Year	2017
Location	Daitari Mines, Keonjhar, Orissa
Client	Orissa Mining Corporation (OMC),
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Member
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major areas covered were entire power distribution system, motor, and feeder load survey. Transformer load analysis.
Name of Assignment	Thermal Insulation Study
Year	2017
Location	Barh, Bihar
Client	National Thermal Power Corporation
Main Project Features	Study, Analysis, Introspection, Heat Loss Calculation
Positions Held	Team Member
Activities Performed	Detailed Thermal Insulation Study, Preparation & Submission of the entire report, and Presentation to the client. The major areas covered were entire Boiler, Turbine & Generator area. Savings to a tune of Rs. 32 lakhs were envisaged.
Name of Assignment	Safety Audit

Year	2017
Location	Andal, West Bengal
Client	Damodar Valley Corporation
Main Project Features	Safety Audit of the Entire Plant based on relevant IS codes
Positions Held	Team Member
Activities Performed	Detailed Safety Audit, Preparation & Submission of the entire report, and Presentation to the client. All relevant process related details and documents were examined, and a detailed safety audit report was prepared after the thorough safety audit of the entire plant.
Name of Assignment	Intensive Preparatory Training Course for Energy Managers & Energy Auditors
Year	2018
Location	(JAMSHEDPUR)
Client	NUVOCO LTD. (LAFARGE CEMENT)
Main Project Features	Training on Electrical & Thermal utilities & End use efficiency enhancement
Positions Held	Core Faculty Member
Activities Performed	Imparted Training, Preparation & Submission of Report
Name of Assignment	Intensive Preparatory Training Course for Energy Managers & Energy Auditors
Year	August, 2018
Location	Kolkata
Client	Representatives from various industries
Main Project Features	Training on Electrical & Thermal utilities & End use efficiency enhancement
Positions Held	Faculty Member
Activities Performed	Imparted Training, Preparation & Submission of Report
Name of Assignment	Detailed Energy Audit
Year	2019
Location	Barbil, Odisha
Client	Jindal Steel & Power Pvt. Ltd.
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major

	areas covered were entire power distribution system, motor and feeder load survey, Compressed Air Network System, Localized HVAC System, Cooling Towers and Lighting. Savings to a tune of Rs. 46 lakhs was envisaged.
Name of Assignment	Detailed Energy Audit
Year	2019
Location	Kolkata, West Bengal
Client	Eastern Regional Load Dispatch Centre (Power System Operation Corporation)
Main Project Features	Study, Analysis, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major areas covered were entire electrical distribution system, Localized HVAC System and Lighting. After the implementation of Energy Conservation options, ERLDC also approached for the Star Rating of the Buildings
Name of Assignment	Detailed Safety Audit as per IS 14489
Year	2019
Location	Durgapur, West Bengal
Client	Durgapur Chemicals Ltd.
Main Project Features	Safety Audit of the Entire Plant based on relevant IS codes
Positions Held	Team Member
Activities Performed	Detailed Safety Audit, Preparation & Submission of the entire report, and Presentation to the client. All relevant process related details and documents were examined, and a detailed safety audit report was prepared after the thorough safety audit of the entire plant.
Name of Assignment	Detailed Energy Audit
Year	2021
Location	Kolkata, West Bengal
Client	Diamond Beverages Pvt. Ltd.
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major

	areas covered were entire Compressed Air Network System, Localized HVAC System, Cooling Towers and Electrical Distribution System.
Name of Assignment	Detailed Energy Audit
Year	2021
Location	Kolkata, West Bengal
Client	Eastern Regional Load Dispatch Centre, POSOCO
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Energy Audit, Preparation & Submission of the entire report, and Presentation to the client. The major areas covered were entire Electrical Distribution System, HVAC etc.
Name of Assignment	Detailed Assessment of Existing Solar Power Plant at ITC Kidderpore, Kolkata
Year	2024
Location	Kolkata, West Bengal
Client	Indian Tobacco Company (ITC), Kidderpore, Kolkata
Main Project Features	Study, Analysis, Introspection, Calculation
Positions Held	Team Leader
Activities Performed	Detailed Assessment of electricity being generated from the existing solar power plant of 1 MWp at ITC Kidderpore, Kolkata

Education (Listed in reverse chronological order)

School / Location	Degree/Diploma	Period	Percentage
<u>College/University:</u>			
National Productivity Council (Ambedkar Institute of Productivity), Chennai	Energy Management	2010	68 (1 st Class)
College of Engineering, Pune	B.E Electrical	2009	61 (1 st Class)

DPS, Dhanbad	Class XII (Science)	2005	68 (1 st Class)
DPS, Dhanbad	Class X	2003	84 (1 st Class with distinction)

Additional Professional Qualifications /

University / Institution	Major Field of Study	Certificate/ Diploma /Degree Obtained	Year
CII, India	Safety & Sustainability	Certified Sustainability Assurance Practitioner	2012
TUV Rheinland	Energy Management	Certified Energy Trainer	2012
CII. India / Jadavpur University	Safety Management in Industries	Certifying Course	2015
Larsen & Toubro, India	Maintenance Management of Switchgears in Industries	Certifying Course	2015
Bureau of Energy Efficiency	Energy Management & Auditing	Certified Energy Manager & Auditor (EA – 29582)	2018
Association Of Energy Engineers, USA	Energy Auditing (Measurement & Verification)	Certified Measurement & Verification Professional - 6332	2019
GRI	Environment & Social Governance	Reporting with the GRI Standards 2021 Update	2023