

Amar Sarma

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To work in the field of Energy sustenance & conservation, Plant O&M, Expansion Project with focus on system improvement, Cost minimization & maintaining the Quality & Operations.

PROFILE SNAPSHOT

- **B.E. (Electrical & Electronics) with 15 years** of experience in HVAC, AHU, BMS, EMS, ACS, CCTV, Fire Alarm System, DG Set, Boiler House, Chiller, ETP, Substation- 220KV, 66KV, 33KV etc.
 - Project planning, Installation & Commissioning of HVAC, AHU, BMS, EMS, CCTV, Substations, Electrical Panel, DG Sets, Gas/Diesel/Coal Fired Boilers, Fire Alarm System.
 - Energy Conservation work in HVAC, Power Plant, Chiller, Boiler & Air Compressor.
 - Plant Load distribution, Identification of distribution losses, Harmonics, Power Factor Improvement.
 - Persuasive Communicator with ability to relate to people at any level of work execution, Project implementation.
 - Well versed with Safety Rules & Regulations in Process Industries, Pharmaceutical & HV/LV equipment.
 - Currently associated with **M/s Sun Pharma Laboratories Ltd.** as Manager (**Electrical & Instrumentation**) in Engineering Dept. in Guwahati.
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EDUCATIONAL CREDENTIALS

- Bachelor of Engineering (EEE) from A.I.T. Chikmagalur, Karnataka under Visveswariaya Technological University (VTU) with 2006.
 - Post graduate in Power Management from UPES, Dehradun in 2009.
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CAREER CONTOUR

M/s Sunpharma Laboratories Ltd., Palasbari (Guwahati)

(Oct 2017 – Till date)

Manager (Reporting to DGM)

- SPL, Guwahati is a formulation plant. It manufactures Sterile, Non-sterile & Sex Hormone products. It is India no.1 Pharmaceutical Company & World's No.4 in Generic medicines.

Job Responsibilities:

- To ensure 24x7 running of HVAC system, EMS, BMS, ACS, Fire Alarm System, CCTV, PA etc.
- To ensure smooth running Network system, communication devices (HUB, Network switches, IT Server etc.)
- To ensure 24x7 availability of Power system along with Utility equipment such as- Steam generation, Compressed air, Chilled water, WTP Purified water, Soft water, N² Gas, Drinking water, ETP etc.
- Maintenance of 33KV Switchyard, PCC panel, DG set, Chiller, Boiler, Cooling Tower fan, Air Compressor, Fire Hydrant pump, 33/0.415KV Transformer.
- Operation of SCADA, HMI, VFD, HVAC, Utility, Process equipment and Troubleshooting.
- Analysis of daily Power report, Fuel consumption report and schedule Preventative/ Predictive maintenance
- Spare & Inventory management, SAP utilization for material indent, Purchase Requisition etc.
- Breakdown & Blackout restoration in Production line & Electrical Distribution System.
- Project design, BOQ preparation, Project Estimate, Installation & Commissioning in Electrical (PCC panel, HT/LT Cabling, UPS, Utility equipment etc.) & Instrumentation (HVAC, EMS, BMS, FAS, Network etc.).
- Implementation of 2.0MW Solar Project, 89 nos. AHU in BMS, 92 Production cubicles, 300+ EMS equipment, 37 nos. Biometric devices, 2400+ nos. of FAS detector, 23 nos. HUB in Network system.
- Continuous work on Energy conservation & generation of new ideas for cost savings.
- Worked as SME for Pharmaceutical Audit activity (CQA, Nepal Audit, Govt. Audit, Safety Audit etc.)

M/s Rockwool India Ltd., Silvassa, (D&NH)

(Jan 2016 – Sept 2017)

Sr. Engineer (Reporting to HOD)

- The company manufactures insulation material to be used for Thermal, Acoustic & Fire-proof application.
- The Slab, LRB etc. are used in Commercial Buildings, Pipe line insulation, Oil industries / Refineries, Power Plant, DG Set, Boiler etc.
- Rockwool India Ltd. is a subsidiary of Kuwait based MNC Alghanim Industries, Middle East.

Job Responsibilities:

- To ensure smooth running of Production Line, DG Set, Compressor, Chiller, HVAC.
- Maintenance of Cupola, Batching unit, Rolling Oven, Roll up machine etc.
- Troubleshooting & operation of SCADA system, VFD, AC Drive, Sensors.
- Preparation of Daily Power report, Preventative/ Predictive maintenance schedule.
- Spare & Inventory management, SAP utilization material indent, Bill entry, downtime report etc.
- Breakdown & Plant blackout restoration in Main line, Curing Oven & Distribution System.
- Technical meeting & selection of Vendor for Plant work.
- Report preparation & presentation to management.

M/s Alok Industries Ltd., Silvassa, Dadra & Nagar Haveli .

(July 2011 – Jan 2016)

Sr. Officer (Reporting to DGM)

- India's largest fully Integrated Textile Company with dominant presence in the Cotton & Polyester segment.
- The Company has total Sanctioned Demand of 126 MVA from Dadra & Nagar Haveli Electricity Board.

Job Responsibilities:

- **In Charge** of O&M in 220/66 KV Switchyard, 66/11 KV Substations and 11/0.415 KV Distribution system.
- **In Charge** of Utility House (LP, HP Compressor for Textile machines, Chiller, HVAC, AHU, BMS).
- O&M of Wartsila Engines (46MW), DG Auxiliary system, PMS, Boilers (**Thermax**: Coal and Gas Fired) for Process Steam.
- Troubleshooting / Breakdown / Blackout Restoration in Substation, Power Plant, Distribution System etc.
- To ensure working of all Electrical Protections & Safeties of the Substation, Power Plant, & Utility.
- Coordination with 66KV/11KV Substation for online Load Sharing & Grid Synchronization using PMS.
- Knowledge of Layout diagram, SLD, Cable Schedule, 220/66/11KV Protection Schemes.
- Relay Coordination for Protection relays used in 220 KV Substation & Utility Distribution-
 - REC 670, RED 670, RET 670, REL 670, REF 615, RED 615, 7SR11, IRXM, Transformer Protection.
- Having knowledge of Relay Setting from 220KV-66KV-11KV-415V voltage level system.
- **SAS & SCADA** operation for 220KV Switchyard to LT system.
- 220VDC, 110VDC & 48VDC Battery Charger, Battery Bank up to 30KVA UPS.
- Knowledge of 11/0.415 KV Distribution System.
 - Load Synchronising Scheme, Load Sharing, Load Shading for optimum use of Electricity.
 - 11 KV HT panel board Erection, Testing & Commissioning.
 - LTPCC, MCC, PDB, DOL starter, Star-Delta Starter, Soft Starter.
- Compressor as LP & HP Centrifugal/ Screw etc., AHU, APFC, HT motors.
- Compressors as ATLAS COPCO / SIEMENS (ZH-15000, ZR-400 & SM-2250, SM-3000/500)
- ALLEN-BRADLEY & L&T make LT **Soft Starters & Drives**.
- Supervision of major Overhauling job for quality workmanship & completion on time as per SOP & Scope.
- **Annual Budget** Preparation and Review for Cost Cutting Measures.
- **SAP** utilization for Procurement & Inventory management.
- Coordination with the Audit program for Substation, Power Plant, Boilers, Utilities in compliance with IMS Certification (ISO-9001:QMS, ISO-14001:EMS, ISO-50001:EnMS), 5S.
- Internal Training to the plant operation staff as & when needed. **5S** Implementation.
- Knowledge of Codes & Standards applicable for Electrical Systems in Industries.

Job Responsibilities:

- Commissioning of Wartsila Engines in Power Plants & Marine application (Instrumentation & Automation), 11kV Substation (Control Panels, CT, PT, LA, Isolators etc.), Sensors as Temperature, Pressure, Level, Speed etc.
- Thermography of Electrical Systems, Electrical Towers, Switchyards, etc.
- Pre-Commissioning Checks / Tests for Control panels / PLC panels etc.
- Relay Testing of all types of Protection / Measurement relays.
- Major Overhauling Job done,
 - Wartsila Engines (HFO/Gas/DF) in Power Plant & Marine Applications, Governor Checks, AMC.
 - Alternator Test (IR, PI Values- Using Megger, CO₂ Cleaning) for both Armature & Field, AVR Checks.
 - Calibration of Electrical and Instrumentations of Sensors (Thermocouple, RTD- PT100, Pressure, Level, Differential Pressure, Speed, Proximity/Inductive Switches), Solenoid Valve, Pneumatic Valve, Flow meter, Auxiliary Motors, VFDs, etc.
- Meeting with the Customer for work done & Scope of improvement in the Plant (Business Development).
- Preparation of MOM and Final Work Report using SAP.

PROJECTS & DEVELOPMENTS

1. Sunpharma Ltd.

- Installation of HVAC system, AHU, BMS, EMS, ACS, FAS, Network system in Expansion Project. (Siemens Ltd.)
- Installation & commissioning of Solar Plant (2.0MW)
- Installation & commissioning of Chiller-625 TR, 500KVA UPS.

2. Alok Industries Ltd.

- Installation & Commissioning of 46 MW, HFO DG Power Plant in three Phases (Wartsila Ltd.).
- Commissioning of 200MVA, 220/66/11KV Substation (ABB Ltd.)
- Commissioning of Thermax make 2x 12TPH, 10.54 Kg/CM²G working pressure FBC Coal Fired Boilers.
- Erection & Commissioning of Thermax make 3x6 ton Gas Fired Boiler (28kg Steam Pressure, NG-GAIL)
- Projects Supervision for smooth and efficient operation along with cost saving measures.

3. Wartsila India Ltd.

- Commissioning & Service of HFO/Gas/DF Engines for Power Plants & Marine Propulsion.
- L&T Shipyard, Hazira (Marine Propulsion & Generation)
- ABG Shipyard, Magadalla, Surat (Marine Propulsion & Generation)
- Alok Industries Ltd., Silvassa HFO DG Power Plant (Power Generation, Transmission & Distribution)

4. Projects during B.E.

- Microcontroller Based Wireless Monitoring for Industrial Processes. The purpose is to eliminate the Inaccessibility in Industrial Operations.

INTERNSHIP/ TRAINING / SEMINAR

- Training on **Internal Audit & Implementation** under Ministry of Micro, Small & Medium Enterprises held in Mumbai (MSME-Technology Devt. Center, Agra). (**ISO-9001 QMS, ISO-14001 EMS & ISO 50001 EnMS**).
- Automation (**PLC, SCADA**) & Instrumentation training (Control System, Sensors) in WLSA, Wartsila India Ltd., Mumbai.
- Analysis of the Renewable Energy options (**Small Hydro**) for the State of **Assam**, Decentralized Generation under guidance from **Ministry of New and Renewable Energy**, Lodhi road, New Delhi.
- Vocational Training on Operations & Maintenance of **Hydro Power Plants** from **MeSEB, Meghalaya**.

SOFTWARE PROFICIENCY

- MS Word, Excel, Power Point, One Note etc.
 - Knowledge of PLC programming & Controller application, Automation.
 - SAP for Inventory management, Purchase Requisition, Service work & Breakdown notification.
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EXTRACURRICULAR ACTIVITIES

- Represented College & School team in Volley Ball & Table Tennis. Also was member of College Sports Committee. Chikmagalur, Karnataka.
 - Organized CSI Student Convention 2006 held in A.I.T Chikmagalur, Karnataka.
 - Completed **N.C.C. B-Certificate** as a Cadet during my schooling in **Sainik School Goalpara, Assam**.
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FIELD OF INTEREST

- Work for Energy Conservation & Cost Savings.
 - Project execution from design, development to implementation.
 - Plant Operation & Maintenance, Utility & Facility Management.
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PERSONAL PROFILE

- Date of Birth: 23rd April 1983.
 - Languages Known: Hindi, English, Assamese and Bengali.
 - Hobbies: Table Tennis, Volley ball, Movies & Travelling places.
 - Passport details: L 2522071
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