**SURENDRA NATH**

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***An Ardent learner, Seeking Senior Level Managerial Assignments in Project Management / Installation & Commissioning /Equipment Maintenance/ Quality Management / Production & Operations with a growth-oriented organization.***

**PROFESSIONAL SYNOPSIS**

* **A result oriented professional** **with Experience in Production/ Operation,** **Green Field & Brown Field Project, Equipment, Plant Maintenance, Industry 4.0 & Technical Training** in 5 Majors, **M/S TATA MOTORS LTD. (Automobile),** **Samtel Color Ltd. (Process Plant), CARRARO INDIA ( Automobile), Ashok Leyland Ltd. (Automobile)**, **ZF Group**, it includes **installation & Maintenance of Machine shop, Heat Treatment Plant, Utility Equipment and Operation.**
* A result-oriented Maintenance professional with **over 29 years** across -

* + **Production – Operation # Assembly Line, Machine Shop, Heat Treatment**
		- CNC Machine – Production Setup
		- Line Balancing – setup New Line & Meet Target
		- Kaizen to improve the Machine Cell Productivity.
	+ **Project Management** – Complete Electrical Design & Execution
		- Capacity Calculation - Transformer, DG
		- Plant Electrification – Cable Scheduling, Panel finalization.
		- Quotation, Negotiation & Finalization for Material and Services.
		- Compete Machine Installation & Commissioning & Handover with company protocol
	+ **Equipment Maintenance** - Project-Planning & Maintenance of
		- Conventional & High-End CNC VMC, HMC – BFW, NIIGATA, TAL, Heller, Makino, Liebherr, Pfauter, Oerlikon, Gleason with Fanuc & Siemens Controller, Robotics and Pick & Place.
		- Paint Booth and Paint Kitchen, Assembly and Overhead Conveyors
		- Review MTBF, MTTR, CAPA, OEE, Failure Mode Analysis, Spares Cost, Team Training
	+ **Heat treatment Furnaces Equipment** - Installation, Commissioning and Maintenance of
		- Continuous Carburizing Furnace, Sealed quenched Furnace & all other accessories equipment, SCADA, DCS, Industry 4.0
	+ **Utility Equipment -** Installation, Commissioning, and Maintenance of
		- 22 & 66 KV Main Receiving station & Substation, 11 KVA & 500 VA DG Set, Compressor, Plant Lighting, Fire System, etc.
		- Crane & Hoist Maintenance – 40 Ton.
		- **Green Energy** - Solar Projects
* **Annual Budgeting, Setting, Monitoring of Company Balance Score Card & Inventory control**
* **Industry 4.0, Digitization & IIOT.**
	+ **Digitization** of Processes
	+ ANDON on the assembly line, report generation, and analysis
	+ LCA using Raspberry PI 4 & Implementation of SCADA,MIS on all the Process plants
* **Liaison work related to Factory Compliance –** CTO, CTE, Pollution Control – Air Quality, Water Quality/ ETP/STP, All Electrical Compliance, Load Test, Building Test,
* **Successfully implementation of Safety standards like LOTO(Lockout Tagout), ESMS( Electrical Safety and Management system), HIRA (Hazard Identification and Risk Analysis).**

**Career Chronology:**

**ZF – Commercial Vehicle Control System, Jamshedpur, Feb 2022 – July 2022**

Working as **AGM – Facility Management** (**Maintenance Head**) responsible for –

* Complete Plant Maintenance – Assembly, CNC Machine Shop, Utility and Civil
* Annual Budgeting and controlling
* Recruitment
* Team Building & Training at plant level
* To maintain Government compliances for the Factory i.e., CTO, CTE, Pollution Control – Air Quality, Water Quality/ ETP/STP, All Electrical Compliance, Load Test, Building Test,

**TATA MOTORS LTD. , Jan 2010 to Feb 2022**

Working as **Sr. Manager Plant Maintenance**, Responsible for Maintenance of High-end CNC Machines, Assembly Line, Cranes, Hoist, Compressors -

* Spares management for the critical machines, it includes preparation of master list, categorizing and ordering the same for Electrical, Mechanical & Electronics spares.
* Coordination with purchase & maintenance planning to get the spares on time.
* Coordination of day-to-day breakdowns. Major machines include -
	+ Crown Wheel & Pinion cutting, Testing, Lapping M/C – Oerlikon & Gleason.
	+ HMC, VMC & SPM with Latest High-End CNC Fanuc & Siemens controller.
	+ CNC Gantry & Robotics Pick & Place - Integration with the Machine Tools
	+ Slat Conveyors / Overhead Conveyor for Assembly
	+ DC Tools & Nut Runners
	+ Arc Welding, Spot Welding & Submerge Welding
	+ Over-Head Conveyors, Cranes, and Hoist
	+ Continuous Carburizing Heating Furnace, Sealed Quenched Furnace.
	+ SCADA and HMI Design and data handling
	+ Utility Power Distribution- 11 KV, 440V, Sub-stations & Portable Compressors
* Coordination with various vendors for AMC – RFQ, execution & monitoring.
* **Annual Budgeting, Fund Allocation, and Monitoring.**
* Initiation & implementation of many improvements to make the system fool-proof.
* Coordination with planning for new m/c procurement, installation & commissioning, and productionization.
* Pre-dispatch inspection at National & International OEM
* Training & grooming peers to cope with the requirement of the company.
* Customer requirement based on “LOW-COST AUTOMATION”
* Root cause analysis of major breakdowns.
* TPM Implementation
* Digitalization at Assembly Line
* Developed DSR (Diagnosis, Spares, Restore) Methodology for Maintenance.
* Setting MOP for Team and review.

**M/S Ashok Leyland Ltd. – at Pantnagar (2008 – 2010) – Green Field Project**

Deputed as **“Manager – Project Planning”** for the execution of new facilities at Pantnagar, Uttarakhand.

The responsibilities include -

* Execution at the site as per released Drawing, approval related to execution as per site condition.
* Coordination with the Contractor, Consultant, and site Team for day-to-day activities at the site, Work schedule, review of activities **“Planned Vs Actual”**, contingency planning for other activity incase of any deviation in planned activity. Overall steering the team to meet the TDC of the project as set by the management.
* Co-ordination with Corporate planning for daily activities, for new requirements & implementation, matter related to Execution at site, Material, etc. Data collection related to site among the group and compilation for presentation to the management on monthly basis.
* RFQ for the particular Materials required at Site, Negotiation and finalization.
* Facilitation of Electrical Utilities in Engine Shop, Crown Wheel & Pinion Manufacturing Shop & Axle shop and commissioning of Machines.
* **Pre-dispatch inspection of machines at Indian OEM and Denmark, Italy. Preparation of standard check list for Inspection.**
* Installation of machines, discussion with OEM (Indian & Global) related to machine installation, problems, initial start-up, preparing minutes of meeting and handing over to production.
* Preparation of Electronics lab, workout for the Lab testing equipments
* Installation and commissioning of Sub Station Equipments e.g. HT transformer, HT/ LT Panels, Vacuum Circuit Breaker and Automatic Power Factor Correction Panel (APFC – Panel), 11 Kv Diesel Generator.
* Interaction with the UPCL for Power up-gradation (3 MVA to 10 MVA) / Pre approval of Drg. before execution at site.

**Carraro India at Pune (2005 – 2008) – Deputed as Dy. Manager Maintenance Machine Shop & Utility – Deputed at Green Field Project & Plant Maintenance** at Ranjangaon, Pune.

Manufacturing & Heat treatment

The responsibilities include -

* Maintenance of Machine facilities Gear Hobbing, Shaping, Grinding M/Cs & Sealed Quench Furnace.
* Maintenance of **utilities equipment** DG set, HT & LT Panels, Automatic Power Factor Correction Panel (APFC) and required Switch Gears, Air Compressors, Forced draught Ventilation, Propane yard equipment.
* Coordination with the parent company abroad for product development.
* Archiving of all the Installation documents.
* **Liaison work** for Electrical, Water and Air Pollution

**M/S Samtel Color –at KOTA (2004 – 2005) – Picture Tube manufacture.**

**Deputed as Asst. Manager** for the New upcoming plant – A Green Field Project at Kota, Rajasthan.

The responsibilities include -

* Erection of Slat & Overhead conveyor as per the released design & Drawing.
* Coordination with corporate planning and the site team for timely execution.
* Reporting the site progress to corporate Planning on weekly basis in a prescribed format.
* Installation of Testing M/Cs and record archiving for all the installed equipment.
* Modification of drawings as per the site condition and updation.

**M/S TATA Motors Ltd. Lucknow 1993 – Aug’2004**

The responsibilities include –

* Maintenance of Continuous carburizing Heating Furnace, Sealed Quench Furnaces
* Maintenance of Gear Cutting and Grinding Machines
* Maintenance of Hoist and EOTs.
* Planning and execution of Preventive Maintenance of Furnace and Machines

**AREAS OF EXPERTISE**

***Man-Power Management, Training & Corporate Social Responsibility (CSR)***

* Inspiring the team in achieving the KPI through Technical and Motivational training involving Engineers, and contractors.
* Resolving interpersonal issues & working towards a harmonious work environment.
* Planning and conducting CSR activities on regular basis. Training to the Children in their Educational subjects helping them in their personal development by motivational Training. Developing infrastructure at Govt. school.

***Project Planning & Execution (Installation & Commissioning)***

* Anchoring on-site commissioning activities to ensure completion of project within the time & cost parameters and effective resource utilization to maximize the output.
* Preparing SOP, MIS reports, manuals & work instructions for operations of Utility Equipment for the unit and performing layout finalization of commissioning activities.
* Installation and Commissioning of the equipment as well as conducting tests & inspections to ensure operational effectiveness of plant & utilities.
* Installation and Commissioning of:
	+ Main assembly line and sub assembly line
	+ Robotics and Pick & Place and Integration with the Machine Tools
	+ Press Machines up to 40 T
	+ Paint Conveyors, Paint Booth, Various washing machines
	+ Electric Tightening tool – CP, Rexroth, Atlas Copco, Apex
	+ Hypoid Gear Cutting & Testing Machine – Oerlikon & Gleason
	+ Overhead Cranes and hoist – 40 Ton
	+ Hobing Machine-Liebherr.
	+ Shaping Machine-Liebherr & Comur.
	+ Saving Machines-Hurth.
	+ Vertical Machining Centre-Tal.
	+ Sealed Quench Furnace-Wesman Ipsen and 200,400 KG/HR, 50 KG /HR CGC Furnace
	+ SCADA Page Design Data management
	+ Induction Hardening Machine-Inductotherm.
	+ Gear Teeth Grinding Machines-Samputensili, Reishauer.
	+ Transformer, DG Set, AHU, Compressor, Sub-station, ETP & STP Plants.

***Equipment Maintenance***

* Troubleshooting/ analysis of the problem related to Controls, Pneumatics, Hydraulics and Mechanical system
* Root cause analysis execution of Preventive and Corrective action.
* Spares management includes classification of spares into Critical & Non – Critical to reduce MTTR
* Maintenance of:
	+ Main assembly line and sub assembly line
	+ Press Machines up to 40 T
	+ Paint Conveyors and Paint Booth, Various washing machines
	+ Electric Tightening tool – CP, Rexroth, Atlas Copco, Apex
	+ Hypoid Gear Cutting & Testing Machine – Oerlikon & Gleason
	+ Overhead Cranes and hoist – 40 Ton
	+ Hobing Machine-Liebherr.
	+ Shaping Machine-Liebherr & Comur.
	+ Saving Machines-Hurth. SICMAT
	+ Vertical Machining Centre-TAL,BFW, UNISIGN, HELLER
	+ Sealed Quench Furnace-Wesman Ipsen, 200 KG/HR, 50 KG /HR CGC Furnace
	+ Induction Hrdening Machine-Inductotherm. IEI
	+ Gear Teeth Grinding Machines-Samputensili, Reishauer.
	+ Transformer, DG Set, FDV, Compressor, Sub-station, ETP & STP Plants.
	+ SCADA & Industry 4.0

 ***Quality / Production Operations***

* Executed cost-saving techniques/ measures and modifications to achieve substantial reduction in O&M expenditures and work within the budget.
* Executing Kaizen Events.
* Preparation for a different level of world Class Quality Levels.
* Leading IATF 16949 Implementation.
* ISO 9000 Internal Auditor.
* Member of Steering Committee TS 16949
* Line Balancing – Lean Manufacturing
* MOST Analysis to determine Cycle Time
* Executed Kizen Projects to increase Productivity
* Setup New Machine Cell and Startup
* Setup New Assembly Line and successful Startup.

**ORGANISATIONAL DETAILS**

**Feb22 – July’22 AGM-Plant Maintenance at** ZF Group at Jamshedpur

**Jan’10–Feb2022** TATA MOTORS LTD.Jamshedpur,PlantMaint.&Brown Field Projects#Sr.Manager

**July’08 – Jan’10** M/S Ashok Leyland Ltd., Pantnagar, Uttrakhand #Project Manager

**Aug’05 – July’08** Gear World (A Carraro Group of Company, Italy) Pune, # Dy. Manager

**Sept’04 - July’05** Samtel Color Limited, Kota, Rajsthan. # Asst. Manager - Project

**Feb’1993 - Aug’04** TATA MOTORS, LUCKNOW, Central Maintenance “Electronics Division”

**Other Accolades:**

* Done Kaizen events at Shop floor.
* 5S Implemented in maintenance section.
* Helped in Autonomous maintenance of M/Cs.
* Application of Industrial Improvement Tools -
	+ - Total Productive Maintenance (TPM)
		- DSR Monitoring and action
		- Failure Mode Effect Analysis (FMEA)
		- Statistical Process Tools (SPC)
		- 6 -Sigma Process
* Worked actively in the implementation of various standards i.e. LOTO, ESMS (Electrical Safety and Management System), HIRA ( Hazard identification and risk analysis) etc.
* Advance Neuro-Linguistic Programming (NLP) trained.

**TECHNICAL KNOW HOW**

PLC Software

* Step 5, TIA Portal, S7 Simatic Manager, Micro win for Siemens
* GX Developer for Mitsubishi
* RS Logix for Allen Bradley on Windows platform

SCADA/MIS Software

* RS View for Allen Bradley on Windows NT.
* SCADA for Siemens - Win CC on Windows XP.
* Wincc-Flex for HMI

**Machine Controls**

* CNC Controller Siemens – 840 D, 810D, 802D, Fanuc – 0i series, 160 I, 0i TD, 30i, 31i
* Robotics and Pick & Place - Integration with Process plant and Machine Tools
* PLC Allen Bradley SLC 500, Siemens – S7 300, S7 200, S7 1200
* PLC Mitsubishi – Q-series, Fx-1n, Fx-2n, Fx- 3u
* Robotics and Integration with Machine Tools.

**Education:** Bachelor Degree in Electronics & Telecommunication in 2000

**PERSONAL DETAILS**

**Date of Birth :** 20th September 1971

**IT Skills :** Microsoft Word, Excel, PowerPoint and Access, MS-DOS, **AUTO CAD**, Norton DOS, Windows’95, NT and UNIX. General assembly of Personal Computers and Hardware troubleshooting, networking troubleshooting, SAP

**Hobby :** Trained in Neuro-Linguistic Programming (NLP),

Memory Techniques,

Law of Attraction,

Power Meditation,

Trekking,

Long Driving and Helping Other

Pencil Sketch.

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