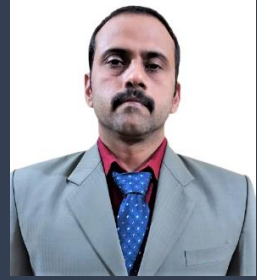


Nishikant Rai

- **Qualification : *Electrical & Instrumentation Engineer***
- **Professional Experience : *Overall 15 Years with various Roles & Responsibilities***
- **Mobile : *Primary +91-9137378831/ Seconadry +91-8969225007***
- **Skype: *nishikantrai1981, IMO /Whatsapp: +919137378831***
- **Email : *Jobs.nishikant@gmail.com & overseas.nishikant@gmail.com***
- **Pasport: *T1912638 Valid upto 2028, Issued- Riyadh(KSA/2018), Indian national***



Professional Exp. Summary:

- **Total Experience 15 Years (Saudi Arabia – 7.6 Years + UAE 0.6 Years + India - 7 Years)**
- **Oil & Gas -6 Years + Petrochemicals -3Years + Fertilizers - 3Years + Paper Industries-1Year + Dairy Plant 1 Years**
- **Commissioning :2 Years + Projects Engineer :2 Years + Construction: 6 Years , Maintenance / Shutdown / Planning - 4 Years**
- **Detailed Design/ Site Engineering - 2 Years**

Skills & Specializations:

- **Familiar with DCS / PLC/ SCADA / ACS / F&G Detection / Field Analyser / Lighting/ Motors / Switchgears / Cables / Transformers / Instrument-Tubing / Panels / Junction-Box / Cathodic Protection Systems / Protection Relays / MCC-Feeders / Control Room – Substation Works/ Analyser Shelters**
- **Construction & Pre-Com / Function Test/ Loop check / Instrument Calibration / Load Test/ Run Test / Relay Test support / System Energisation / FAT / SAT / Reconciliation / System Handover / Vendor Package Support**
- **Site Manpower Control / Client Reporting / Project Documentation/ Daily Panning Reports/ QC inspection support / Site Progress Reporting / Vendor cordination Report / DPR / Projection Reports & Look ahead Plans**
- **Turnaround Support / Sparepart Mangment / Technical Evaluation / Material Invetnry and codifiatio/ Wharehouse Inspection / Local purchase / Interchangebilty reports / PR & PO support / Cost control Support**
- **FEED & Deatled Engineering at site , MTO & BOM Preparation, Technical Evaluation, & Interchangeability ,Project Cost Control**

Standard and Compliances:

- **Referring & practicing according to Saudi Aramco Engineering Standard, Reliance Petroleum Engineering Standards, Maaden Phosphate, Indian oil Company Engineering Standards, ONGC, Engineering Standards, BIS, API, and ISA codes, ANSI, OISD, ANSI, IEEE, NEMA V2, NEFA, ISO and UL Standards.**
- **Electrical – AC DC drives LV / ELV Power & Lighting, Solar PV systems, Substation Interfaces, LV Switchgears, UPS & Emergency Power, ELV systems, Energy Management system and Data gathering stations.**
- **Construction /Installation, Calibration, Pre Com / Commissioning, Vendor Package Support, SAT / SIT Test Support & Coordination, Package Logic 63Test, Loop Function Test. Field analysers, analyser shelters, DCS, PLC, SCADA, FH & BMS,DDC, Single station Controller, Firefighting system, Gas, Detection System, Analyser shelters.**
- **Control Room Instrumentation & interface with MCC, Industrial, Telecom, CCTV, PAGA, Access control, optical networking, Foundation Fieldbus system, Telephone / Intercom system.Diagnosed customer issues by asking probing questions and write up repair orders. Ordered supplies and kept inventory at optimal levels**

Professional Education:

- **Bachelors Degree of Engineering - Instrumentation & Control, Govt. Collage of Engineering, Nagpur University, India (2005)**
- **Engineering Diploma - Industrial & Power Electronics, Bajaj Polytechnic, MSBTE (Mumbai), India (2001).**

Professional Membership:

- **Saudi Council of Engineers (Membership No 398910)**

Software's Knowledge

- **Microsoft Office-365/ Oracle ERP / Piloge-MDRM / PLC AB / DCS -Yokogawa / Foundation fieldbus / Primavera P6 / Aconex / SAP**

Curriculum Vitae

Overseas Employment History: - (8 Yrs)

	Company	Client	Projects	Designation	Location	Start	End	Sector
1	AYTB Contracting Company	Maaden Phosphate Company	MPC- Ras Al Khair - Project	Spare Part Planning Engineer – E&I	Jubail, KSA	08 February 2018	28 March 2021	Phosphate /Fertilizers
2	GS Engineering & Construction	Rabigh Refining & Petro Chemicals Co. Ltd -Saudi Aramco	Petro Rabigh II Project	Instrument Engineer	Saudi Arabia	June 2014	May 2017	Petro-Chemicals
2	Punj Lloyds Ltd.	Abu Dhabi onshore Company, shah Gas filed - ADCO	Spiking Compressor Gas Project.	Electrical & Instrument Engineer	UAE	Sept 2013	Dec-2013	Oil & Gas
3	Samsung Engineering	Alcoa Ma'aden Aluminum Joint Venture Company – Ma'aden Group	Ma'aden Aluminum Rolling Mill project	Instrument Engineer	Saudi Arabia	July-2012	Sept 2013	Aluminum Refinery

Indian Employment History: - (7 Yrs.)

Sr	Company	Client	Projects	Designation	Location	Start	End	Sector
1	Krishnapali Construction s Pvt Ltd.	Bihar State Road & Infrastructures Development.	Bihar Government Elect .Project	Electrical & Solar Consultant	India	Dec 2013	June 2014	Electricity & Trans.
2	Elster Instromet	Gas Authority of India Ltd.	NG Pipe & Metering skid Maintenance	Instrument Engineer	India , Vadodara	March -2012	June-2012	Oil & Gas
3	Nagarjuna Oil Corporations Ltd.	Nagarjuna Oil Corporations Ltd	New Crude Refinery (NOCL Refinery)work	Instrument EPCM Engineer	Cuddalore , Tamilnadu	Nov-2010	Feb-2012	Oil & Gas
4	Reliance Petroleum.	Reliance Industries Ltd.	Shutdown Work for CDU/VDU-I&II	Instrument Engineer	Jamnagar , India	Oct-2010	Nov-2010	Oil & Gas
5	ABB Ltd.	Indian Oil corporation Ltd.	Motor sprit Quality up gradation Project , IOCL	Instrument Engineer	Barauni , India ,Bihar	Jan-2010	Sept-2010	Oil & Gas
6	L & T Ltd ECC	Cairn Energy India Ltd.	Barmer salaya Pipeline Projects.	Instrument Engineer	Viramgam, Gujrat, India	--	Sept-2009	Oil & Gas
		Reliance Industries Ltd.	Jamnagar Export Refinery Project , RIL	Instrument Engineer	Jamnagar , Gujarat	Sept-2007	--	Oil & Gas
7	JK Paper Ltd.	JK paper Ltd	CPM Duplex Board Project , JKPL	GET-Instrument	Songadh , Gujarat , India	July 2006	Aug 2007	Paper & Board
8	Industrial Progressive	Industrial Progressive India	Industrial Progressive India	Instrument Engineer	Haryana, India	March 2006	June 2006	Dairy & Foods

Curriculum Vitae

	India Ltd.	Ltd.(DOABAA)	Ltd.(DOABAA)					
9	Mahaan Proteins Ltd.	Mahaan Proteins Ltd.	Mahaan Proteins Ltd.	Instrument Supervisor	Mathura , India	Sept 2005	April 2006	Dairy & Foods

Field Planning & Control:

- ❖ Preparation of project Execution plan ,Look ahead plans , Construction Liquidation Schedule ,Consumable Materials List , Major Project materials, Major EPC items BOQ (JB ,Panel, Tray , Cables , structural steel, Glands, Instruments, Panels, analyzers, Earthlings ,Control, Vales) , Sub-contractor Manpower & Equipment Mobilization plan, R&R organizational chart , Material Estimation & Cost Estimation.
- ❖ Site Review Vendor package, Project Tie-In & Interfacing , Billed & Unbilled work ,Quantity Surveying & validation, Construction work activity reports , , Joint Measurement for Client/Contractor.
- ❖ Approvals of Local Material purchase, Installation Procedure, Method statement, As Built drawing approvals, Instrument Quality ITP , Consumables Materials , Tools & Tackles , skilled Manpower Approvals (Welder , Jointers ,splicer , Terminators).
- ❖ Coordination of PMT, PID, EPC & subcontractor, Transmittals, Sub-Con & Client letters, Technical Queries, Waivers& Memorandums, Third party Inspections issues , Weekly Client meeting Coordination.
- ❖ Planning – Progress Report update , Site Manpower (E&I) Control ,Constructions Equipment's (E&I) Control , Look Ahead planning , Quantity surveying (E&I) ,
- ❖ Material Expedition – BOM & Actual requirement, Material liquidation schedules, Material consumption & reconciliation at site Level.
- ❖ Costing (E & I Project) Estimation for– Look ahead (every 3 Months , Consumable, Manpower Mobilization ,Equipment's & Power -Tools costing, Rental Manpower & Site Temporary Facilities, Inventory Control.

Process Area Familiarization

- ❖ EX –PIB/ RTU/ Operation Buildings , Clean Room & Engineering stations
- ❖ LDPE Unite, Utility Unite, Naphtha Hydrotreater Unite, Gas Metering Skids, CDU/VDU Plant Cocker & Delayed Cocker unite, MBTE.
- ❖ Packing Systems , Super High Pressure System , Super high pressure Lube Oil System , Reciprocating compressors , High Pressure Extruder & Reactors
- ❖ Paper Board Process Plant
- ❖ Aluminum Rolling Mill
- ❖ Chiller Plant ,DM water Plant, ETP Plant
- ❖ High Grade Milk processing Plant.

Professional Trainings & Certifications

- ❖ H2S expose at work & Breathing Apparatus Training – Punj Lloyds Ltd.(Abu Dhabi) – 2013
- ❖ LOTO Safe work Procedure- Samsung Engineering Saudi Arabia – 2012
- ❖ Primavera P6 Course – By CADD center for Learning , India- 2011
- ❖ Foundation fieldbus Structures & Installation Methodology- L&T Ecc Ltd.-2008
- ❖ Safe Practices in JK Paper Ltd by Total loss control , India , 2006
- ❖ Accident prevention Techniques in JK Pare Ltd By Gujarat safety council ,India , Sep 2006

Instrumentation:

- ❖ Installation of field instruments like Transmitter (Pressure, Level, flow, temperature, Load Cell,); Detectors (Heat, Flame, Fire, Analyzers Shelters , Vendors Package, Field Analyzers (SOX ,NOX, PH, O2 ,H2s,Dew point ,CEMS, Conductivity , chorine ,and Consistency);Gauges (Pressure , Level temperature ,Flow, nucleonic);Switches (Level , pressure ,temperature ,Flow);Sensors(RTD, Thermocouples, LVDT ,Speed ,radio-active, Vibration) ;Special Instruments ((ultrasonic transmitters ,Radioactive Instruments , GWR Instruments , Laser Instruments , Optical instruments, Wireless instruments, Magnetic Instruments); Final Control Elements (Ruptured Disc, integrated orifices, MOV ,SOV, Control Valves, slam shut valves, safety Valves, volume tanks, valve chambers.

Curriculum Vitae

- ❖ Work with Inst. Manufacturers' Fisher Rosemount Inst , Masoneilan valves , Bentley Nevada Vibration system, Vega Radioactive instruments ,FF sytem- FM200 , Gas Detection system , BMS / BAS system integration with Control Room
- ❖ Monitoring & Coordination of Project Site work - Installation of Supports , Main Cable Tray, Secondary Cable Tray, Embedded RGS Conduits , Cable Pulling, Cable Termination , Instrument Earthing & Grounding ,Junction Box ,Instrument Power Distribution Panels ,Local Control Panels, Field Marshaling Panel, Panel Base Frames supports ,Plant Interface Building Panel , Operators Consoles , Engineering Stations ,HMI & Monitors ,Instrument Stanchion , CCTV Camera & Brackets , MCT frames & Modules ,Local Gauge Boards , Installation & supporting of (Impulse Hook-up, Air Tubing/Piping ,Sampling Probes /Tubes, Gas detectors).
- ❖ Monitoring of Sub Contractor's Shop work Fabrication structural supports , weld Visuals & Alignments , Sand Blasting, Painting ,Material reconciliation , Job Measurements , Calibration shop , Material storage Indoor & outdoor ,Transportation , Construction Equipment. , Skill Manpower Monitoring (Technicians, Fitters, Welders, Electricians, riggers, watchmen). Documentation Transmittals for Construction – IFC ,Typical , as Built, schedules & Vendor drawing
- ❖ Familiar with Instrument Index, I/O List, Instruments Datasheet, Connection Diagrams, Instrument Loop Diagram, Cause & Effect Diagram, Logic Faction Detail, Typical Installation Drawings , Junction Box Layout ,Process Connection Diagrams , Impulse Hook-Up ,Pneumatic Piping Diagrams Instrument Location Plans, I/O List, Main Cable Layout , Duct / Conduit Layouts, Junction Box Layout , Cable Drum schedule, Hydraulic Tubing diagrams , Instruments Datasheets, Power & Communication cable Layout Main, Cable Tray& Conduit Plans.
- ❖ Knowledge of Process Control System Installation – Distributed Control System (DCS- Yokogawa), Emergency Shutdown system(ESD-Honeywell), Safety Instrumented System(SIS) , PLC(Siemens , Allen Bradley) , SCADA, Data Acquisition System(DAS),CCTV System,(Honeywell) , Analyzers shelter(Yokogawa)Interconnection wiring , Marshalling Control Panels, Optical Marshaling Panels, LIU-Hardwired Interfaces Panels , Operator Console ,Engineering Station, Instrument remote I/O Racks, Interpose-Relay Panels, Satellite Telecom Panels, Mimic stations, Local HMI stations, Foundation Fieldbus (FF) System, DCS Marshaling I/o Panels, PLC & I/O Cabinet , SCADA Systems & Consoles .
- ❖ Energization, Testing & Treble shooting - Vendor Packages & Tie-In Interface - Analyzer Shelters, Metering Gas skids, Local PID Controllers, Gas Metering Skids , Automatic Packaging Unites ,API Pump Skid , Deluge skids , Pneumatic Conveying system , Automatic Weighing System , Field analyzers, HVAC Systems , Lub-Oil consoles, Hydraulic power Stations, Refrigerators Unite, Reciprocating/Screw Compressors Packages ,Extruder Packages , Crude Heaters unites , Furnace unites Automatic Silo packing ,Automatic Sheeter & Packing Unite ,Chemical injection Section , Automatic Pump Dosing System.
- ❖ Test & Calibration (Bench/Field) - Control Valves(Stroke, Opening , Seat ,leak), Pop-up Test of PSV /PRV,Flow TX, Pressure TX, Level TX, Temperature TX, Temperature Gauges ,Pressure gauges, Flow switches , Temperature switches , Cable Insulation & Continuity Test, Thermocouple/ RTD/Thermistor, I/ P , DCS/PLC Logic Functional Test , high pot Test, Pit resistance test, Cable Joint & Splice Test.
- ❖ Loop Check , Validation, Energization, Testing & Commissioning Loop Folder Preparation, Control Loop Tuning, DCS / ACS / PCS check, Graphic & Logic modifications , Fault Diagnosing & Troubleshooting , Logic Test ,Graphic Modification , System Cause & Effect test.
- ❖ Commissioning Assistance / Tie-in Interface of Vendors Package Integration – Gas Metering Skids , Automatic Packaging Unites(Ceperion) ,API Pump , Deluge skids , Pneumatic Conveying system , Automatic Weighing System Access Control system , Gas detection System , Field analyzers, Satellite Control Stations ,Telephone system , LAN system , HVAC Systems , AC/DC Drives(ABB) , VFD/VSD Interfaces(Rockwell Automations) .

Electrical (LV / Control):

- ❖ Building Wiring & Electrification, Outdoor lighting system, Substation cable Cellar Installation, Plant Tray & cable Routing System.
- ❖ Installation & Testing of Street Light, High Masks, Poles , Distribution Boxes , light Fixtures, Power outlets, Welding receptacles, Isolators & Breakers, EMT Conduits , Earthing & Power Distribution Schemes , Earth-pits , Plant Earths, Bus Bar, Duct Banks & Encased Trench.
- ❖ Installation & Testing of MCC Feeder Control & Interface panels , Battery Charging Panels , PP panels ,LV Switchgear , Relay Panels , Bus bar & Trenching ,Current Transformer Panel , VFD panel.
- ❖ AC DC Derives ,VSD - Construction , Vendor Wiring , & Test Support

Curriculum Vitae

- ❖ Testing of Electrical System - Street Light & High Masks , Isolators & Breakers Earthing, Earth-pits , Plant Earths, Bus Bar, Fire Alarm System , Public addressing system ,Access Control System, Plant Telephone system, AC & DC Drives , VFD,VSD .
- ❖ Installation of Solar System & PV Modules Procurements of Battery, Solar PV Modules, Main & Auxiliary transformers, tie-in Grids Inverters, Materials post Inspection, Installation & alignments of Charge controllers, PV Module, UPS, and Battery bank.
- ❖ Wiring & connection - Solar Panel, PV Modules, UPS , Battery bank , Grid Inverters , Dc Wiring & Lightings, Energization of Transformers ,Battery Bank system ,UPS , & Inverters , Charging &discharging test , Overall grounding , earth pits & individual Earthing.

Telecom & Building Control:

- ❖ Installation of Public addressing system (PAGA) , Plant Hotline System , Access Control System, Plant Telephone system, Fire Alarm System , MCP & FACP Addressing System , Smoke & heat Detection System , CCTV System.
- ❖ Testing & Trouble shooting.
- ❖ Installation of instruments for BAS for ELV systems, Energy Management system, and Data gathering stations.
- ❖ Energization of EX –PIB/ RTU/ Operation Buildings, Clean Room & Engineering stations and Readiness for SAT.
- ❖ Daily Monitoring and Inspection Log sheet Maintenance during Commissioning.

Operation & Maintenance:

- ❖ Maintenance of Field instruments &Local Control Loops, Control System, DCS, PLC, Local controllers & Recorders.
- ❖ Troubleshooting DCS/PLC Loop of process Interlocks & Logic sequences, Hardware Fault, Assistance to Functional trials of process sequences and Plant Start-up.
- ❖ Calibration shop & Field audits for Predictive maintenance, Inventory & down time control; workshop management & shift Handling, Schedule Maintenance, Process Breakdown Maintenance.
- ❖ Maintenance of hydraulic Power Pack instruments, maintaining Specifications Register, TPM- Implementation & Monitoring, TQM- Implementation & Monitoring, ISO Audits Preparations.
- ❖ Revamping & Modification of existing Loops & Control Schemes, Plant Modification & Shutdown.

Plant Shutdown:

- ❖ Estimation for shutdown qty of Field instruments , Control Loops, Recorders , Inline Instruments , JB & cables
- ❖ Calibration of Field Instruments, Modification of JB & Instrument location, Instrument Cables, Impulse Tubing & Air lines.
- ❖ Maintenance of hydraulic Power Pack instruments, Gas Detectors, Analyzers & Vendor Packages Instruments.
- ❖ Revamping & Modification of existing Loops & Control Schemes.
- ❖ Estimation tools, Consumables, schedules & Manpower.

Spare parts Management:

- ❖ All E&I spare for the complex BOM preparation on Basis of Criticality and Interchangeability.
- ❖ Material Codification and Cataloguer material identification support for complex.
- ❖ Technical Evaluation for new spares and replacement / outdated spares.
- ❖ Material Inventory for spares maintenance as per Requirement.
- ❖ Spares cost control for International and Local spares with new vendor development.
- ❖ Shutdown and Emergency spares Arrangement as per existing or Replacement spares
- ❖ Preparation of Electrical and Instrument Reports for Daily Planning and Maintenance.
- ❖ To support and execute Complete Material requirements and tracking in turnaround.

Pre-Turnaround, Turnaround and Post Turnaround:

- ❖ Interfaces with the Contractors, ensure that Task Risk Assessment (TRA), Method Statement (MS), Job Pack (JP), Test Pack (TP) and related documents submitted by Contractors are reviewed.
- ❖ Preparation of critical form, deviation and management of change in accordance to requirement for identified tasks.
- ❖ Reporting of deficiencies for continual improvements.
- ❖ Control costs through efficient execution, compliance with the planned work, and adherence to controls policy.
- ❖ Ensure changes to work scope are conducted via the approval process (field change orders).

Curriculum Vitae

- ❖ Ensure work order steps are followed and any deviation from approved work scope or inspection test plans is approved by the document originator.
- ❖ Assign, manage and monitor Contractors day-to-day work activities. Reporting to the Execution Lead on progress and findings.
- ❖ Conduct job packs walk-downs prior to start of Turnaround. Review for constructability, safety, quality, congestion, schedule accuracy and materials.
- ❖ Endorsement of Job Packs before Execution.
- ❖ Conduct Daily/Weekly Contractors Meeting.
- ❖ Work with the schedulers to define contractor craft build up. Review contractor craft availability, and define contractor resource plan (assignments, locations, responsibilities, coordinators, etc.).
- ❖ Manage and Initiate mobilization (e.g. Inspection of contractors' inventory) and demobilization as defined by the schedule.
- ❖ Oversee fieldwork execution as per the Turnaround schedule. Report problems and ensure schedule (work list) compliance.
- ❖ Facilitate daily coordination status meetings with Contractors.
- ❖ Attend daily coordination progress and SIMOPS meetings for discussion, clarification, confirmation and thereafter compliance.
- ❖ Execute the shift handover document protocol (counterpart handover communications, next shift priorities, critical path, safety concerns, schedule update timing, and expectations for handover meeting communications).
- ❖ Complete job tasks and final walk through for Electrical and Instrument completion.
- ❖ Ensure compliance to Flange Management Standard.

Strengths & Highlights:

- ❖ Resourceful, proactive, multi-tasking and good trouble shooting skills.
- ❖ Good interpersonal, communication, writing and teamwork skills.
- ❖ Strong knowledge of maintenance techniques and basic engineering interpretation skills.
- ❖ Capable of managing Contractors to achieve common goals.
- ❖ Computer literacy and ability to update reports and records in Oracle.

Awards & Appreciations

- ❖ Certificate – Best Employee of Month by Samsung Engineering co Ltd, Saudi Arabia – 2013.
- ❖ Certificate - Best Award for Safety - Case study by Certificate by L&T ECC, India -2009
- ❖ Certificate - Best Award for Safety - Case study by Certificate by L&T ECC , India- 2008
- ❖ Certificate - Best Award for Safety – Trainee Engineer by JK Paper Ltd, India- 2007

***** The end *****