**TUSHAR DEWANGAN**

***Contact No:*** +917247479036, +918964051057

***E-Mail:*** tushardewangan74@gmail.com, **Passport no**: M1156593

Seeking a challenging and rewarding opportunity in the field of **Control & Instrumentation and Analyzers** (Erection, Commissioning, Operation & Maintenance) of overall unit.

***EXECUTIVE SUMMARY***

* **Having 8 Years** of experience in Project (Erection & Commissioning) Testing & Installation, Plant Operation & Maintenance, Strategic Planning and Team Management.
* Currently associated with **Chemtrols Industries Pvt. Ltd. As Control & Instrumentation and Analyzers Engineer at IOCL Paradip (Orissa).**
* Previously associated with **Chemtrols Industries Pvt. Ltd. As Control & Instrumentation and Analyzers Engineer, Jamnagar (Gujarat).**
* Previously associated with **Reliance Industries Limited as Reliability Engineer (Control & Instrumentation) J3-CES Analyser Group, Jamnagar (Gujarat).**
* Previously associated with **Srikari Engineering & Infra Pvt. Ltd. as Instrumentation Engineer at Hiran Power Panamure Pvt. Ltd., Embilipitiya, Srilanka.**
* Previously associated with **BGR ENERGY SYSTEMS LIMITED** as Instrumentation Engineer at **TRN ENERGY PVT. LTD 2\*300 MW Coal Based Thermal Power Station, Raigarh, Chhattisgarh.**
* Previously associated with **Telecon Systems** as Instrumentation Commissioning Engineer at **TRN ENERGY PVT. LTD 2\*300 MW Coal Based Thermal Power Station, Raigarh, Chhattisgarh.**
* Earlier associated with **M/s Vandana Vidhyut Ltd, Korba, Chhattisgarh as Engineer-Control Instrumentation (2\*135 MW PFBC Boiler)** Power Plant.

***EMPLOYMENT SCAN***

**Since June’2018-Present with Chemtrols Industries Pvt. Ltd. As C&I and analyzers Engineer**

**Since May’2018-May’2019 with Reliance Industries Ltd. As C&I and analyzers Engineer**

**Since Sep’2017-May’2018 with Srikari Engineering & Infra Pvt Ltd as Instrumentation Engineer**

**Since Nov’2016-Aug'2017 with BGR Energy Systems Limited as Instrumentation Engineer**

**Since Oct’2015-Oct’2016 with Telecon Systems as Instrumentation Commissioning Engineer**

**Since Sep’2013-Sep’2015 with Vandana Vidhyut Ltd as Instrumentation Engineer**

***Roles & Responsibilities***

* Experience on analysis of Cause and Effect Diagrams, Factory Acceptance documents, Wiring Diagrams and Instrument Lists that meet IMS, IEC and ATEX Standards, which includes hazardous/explosive environments & HAZOP, HIRA, RCA, SIL.
* Having hands on experience in execution of Instrumentation for overall packages, Field Instruments, DCS, PLC, F&G, and Analyzers.
* Continuously involved in Commissioning, troubleshooting & maintenance of process and machinery monitoring, control and safety system like DCS, ESD, F&G, Gas Chromatographs and various field Analyzers.
* Expertly worked with Field Instruments like Pneumatic Control Valves, Power Cylinder, Motorized valve, Smart Transmitters for Pressure, Level and Temperature, Flow Meters and Switches, BMS, Thermocouple, RTD, Level Switches, Pressure switches. Solenoid valves, GWR Level transmitter E&H FMP-51.
* Involved in Implementation, Testing, Commissioning and Maintenance of BMS Controls.
* Working on Mass flow meters cmf 300.
* Magnetic flow meters Khrone optiflux 1300.
* Ultrasonic flow meter GEX Gf868i.
* Vertex Flow transmitter E&H Prowril200.
* Execution of field instruments installation as per Isometric, piping & instrumentation diagrams, junction box layouts, instrument loop diagrams, hook-up drawings, location plan.
* Hands on experience with Low Voltage Signal I/O (PLC's, 4-20mA sensors, 24 VDC actuators/switches/relays), High Voltage Switching Control, Intrinsically Safe Systems and Customer Networking Interface, Distributed Control Systems and Gas turbine generator **GE mark VI plc**, frequently work on Refrigeration compressor **S7-400 PLC.**
* Responsible for cable continuity testing (from sensor to I/O cards), loop testing (Dry and wet loop) of field instruments.
* Preparation of all field test reports like instrument installation reports, calibration reports, loop test reports with Beamex smart calibrator, familiar with HART Communicator Emerson 375,475.
* Working on machine control monitoring system (MCMS) rack configuration, loop check, linearity check (TK-3) and diagnosis axial, radial displacement and, accelerometer, winding, bearing temp with **BN3500.**
* Commissioning & troubleshooting the control valve like FISHER**, MASOLlEIAN Positioner & PENTAIR actuators, BIFFI** and **MOV**s, AUMA, ROTORK for application as Damper, Gate use in flue gas path and steam utility line process etc.
* Involved with Erection, Commissioning & Maintenance activity of Analyzer monitoring system, observation with checklist and maintaining plant reliability.
* Working on ABB PGC5000 & 1000GC’, SIEMENS MAXUM II.
* Servomex Paramagnetic Oxygen.
* Ametek Oxygen Zirconia Analyzer WDGV.
* ABB make PIR3502 and EL3060 Analyzers.
* Stack Analyzer CEMS(TDLAS)
* Emerson SWAS Analyzers (PH, ORP, Conductivity, DO-1066 etc)
* SICK MAIHAK S700 Dust Analyzer, CEMS(TDLAS) SICK MAIHAK S715.
* Erection and commissioning of F&G and fire suppression Honey Well system (SM&FAP). Familiar with F&G instruments like:-
* DGT (Toxic gas detector) Crowcon Tx guard*/*DGC (combustion gas detector) Honeywell optima plus.
* MCP (Manual call point Appolo)/ Linear heat sensing cable( kiddle, proline)
* DSM/DSO (Optical smoke detector/multiple smoke detector)
* DFX (IR/UV flame detector-spectrex)
* Deluge valve (INbal, HDfire) & splinker system.
* Fire suppression System **FM200.**
* Checking of interlocks and troubleshooting the problems in PLC used for Burner management system (BMS).
* Work with conveyor zero speed switch and gravimetric and volumetric feeder, Mill rejection system, FD fan, ID fan, turbine driven feed pump, steam leakage detection system, shoot blower etc.
* Experience in FOXBORO EVO-14, TRICONEX 1131, METSO DNA stem and various communication protocols like HART, Foundation Field bus, Modbus, switches etc.
* Capable of handling material management related processes as well as knowledge of working with SAP and permit planning through a SAP**.**
* Planning & implementing preventive, maintenance schedules for improving the overall reliability and safety of plant equipments & machinery.
* Daily round up of Turbine instruments (temperature element, vibration probes, gauges).
* Erection, Commissioning and Maintenance of Distributed Control System panels. Panel earthling & equipment earthling.
* Erection&Commissioningof Turbine area instruments used in Bfp, Cep, Heaters, Cccw&Occw, Vaccum pump, Nrv's,Erv, Governing Valves, Hp&Lp Bypass.
* Installation, commissioning and Maintenance of all Instrumentation Related Equipments. Installation and Maintenance of Turbine Vibration Sensors, Bearing Temperatures.
* Installation and Maintenance of all Boiler instrumentation Equipments. Installation and Maintenance of Ash Handling instrumentation.
* Maintenance of all CHP Instruments including ZSS, Pull Cord & Belt Sway Switch.
* Maintenance of all Equipments. Installation and Maintenance of Ash Handling instrumentation Maintenance of AHP, PLC (Rock well), ash brick plant, IAC, & all instrument actuator, solenoids, pressure gauge etc.
* Calibration & Trouble shooting of Pressure, Flow, Level & Temperature Transmitter.
* Installation and Maintenance of all BOP instrumentation. Installation of signal, control & power cables trays.
* Maintenance of UPS system. Instrumentation.
* Proper documentation, planning, implementation, monitoring & controlling of all issues related to the C&I maintenance.

***CORE COMPETENCIES***

* Project Execution, Procurement.
* Pre-commissioning and Commissioning.
* Compliance to work permits and various standards.
* Analyzers and Fire & Gas Detection Systems.
* Operation and Maintenance.
* Fault Detection and Troubleshooting.
* Risk Control and Emergency response.
* Safety Management System.

***ACADEMIC & PROFESSIONAL CREDENTIALS***

* **Post Graduate Diploma In Industrial Automation (PGDIA**) from PROLIFIC Systems And Technologies Pvt. Ltd.
* **B.E (Electronics &Telecommunication Engineering) 2013** with **64.71%** From Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G)
* **Higher Secondary School (12th) 2007**with **56%**Form Board of CBSE
* **High School (10th) 2005**with **68.33%**Form Board of CBSE

***EXTRA-CURRICULAR EXPERIENCE***

* **Post Graduate Diploma In Industrial Automation (PGDIA) Includes:-**

**PLC (Programmable Logic Controllers)**

* **Siemens :** S7 300- Microwin32, CPU312C, Simatic Manager V5.5
* **AB (Allen Bradley) :** SLC 500 &Micrologix 1000 Series C, RSLogix500.
* **GE-Fanuc :** GE-Fanuc9030Series(CPU-IC693CPU331)

Versamax Microcontroller, Versapro SoftwareV2.04

* **Schnieder Electric-Modicon :** Zelio Soft,PL7 PRO 4.0/4.2/4.3

**SCADA(Supervisory Control & Data Acquisition)**

* **Wonder ware** : Intouch Software.

**DCS (Distributed Control System)**

* YOKOGAWA - Centum VP
* ABB - Symphony Plus, 800M
* HONEYWELL
  + - Software : Hybrid Control Designer Software Rev4.4x
    - Model : HC900-C50
    - MMI S/W : X Designer Plus V2.6.11
    - SCADA S/W : Experion PKS

***SOFTWARE EXPOSURE***

* Programming language:-C, C++ and a learner in Microcontroller & Microprocessor.
* Computer Skills: - MS Office, MS-DOS, WINDOWS-98/XP/VISTA/7, Adobe Photoshop.

***STRENGTHS***

* Time punctual, hardworking and sincere.
* Effective management qualities.
* Work effectively with diverse group of people.
* Adaptability & can perform even under pressure.

***PERSONAL DETAILS***

**Father Name** : Mr. M.L. Dewangan

**Date of Birth :** 1 June 1988

**Address :** H.NO. 559, Indira Colony, TigaddaChowk, P.O-Suhela, Tehsil-Simga,

District-Balodabazar, Chhattisgarh, Pin-493195

**Languages Known :** English, Hindi

DATE:

**TUSHAR DEWANGAN**

PLACE: