

Shubham Mortale

Project Technical Engineer

HVDC Control & Protection

Hitachi Energy

Post Graduate Diploma in T&D (1Yr), Bachelor of Technology in Electrical Engineering (4Yrs)



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Objective

Currently working as Project technical engineer at HVDC control and protection engineering department of Hitachi energy with a mission of building long term career in power system with mainly focused on HVDC C&P and related technology in order to learn and develop HVDC C&P skillsets with a exposure to work in multi-cultural organization.

Passionate about data analysis & visualization, latest technology, and strong desire to learn!

Experience

Project Technical Engineer-HVDC C&P | Feb 2022–till date

Hitachi Energy

ROLE

Software engineer at Software Integration department

RESPONSIBILITIES

- Follow the established software integration processes and praxis.
- Report any observed risks or deviations according to department process.
- Answer RoRs and TQs of HVDC Control & Protection Tender.
- Link Requirement to Delivery of HVDC C&P Requirement Review and Feature Setup.
- Prepare Tender Documentation HVDC Control & Protection.
- Create Control System Description of HVDC C&P Detailed Conceptual Design.
- Design Field Bus overview of HVDC C&P Basic Conceptual Design.
- Develop Software of HVDC C&P Software Application design.
- Review specification and collect requirements from specification of HVDC Control & Protection.
- Design Back up trip overview of HVDC C&P Basic Conceptual Design.

AUTHORITIES

- Review software documents
- Participate in DRMs

MAIN WORK TASKS

- Develop control or protection software to the project.
- Deliver project tasks according to the time plan and with right quality.
- Understand the contract scope and ensure we are aware of the customer requirements.
- Cooperate with other departments involved in our deliveries.
- Use the relevant base solution

Skills

HVDC system: MACH Control & Protection system, SIMATIC TDC control & Protection, HVDC software integration, HVDC Valve equipment's, valve cooling system, AC filters, Station control and Monitoring, HVDC C&P Hardware.

Problem solving: Fault diagnosis, Root cause analysis (RCA)

Effective stakeholder Communication: Communicating with grid regulatory authorities

Software's: Azure DevOps, HiDraw, SIMATIC CFC, DIGSI, MATLAB Simulink basics, Power BI, Tableau, PSCAD basics

Office Application: Microsoft Word, Excel, PowerPoint, Visio

Ongoing learnings

- Data Visualization using Tableau

Certificates

- HVDC SIMATIC TDC and WinCC Certificate Siemens India Ltd, Goa
- Internal Auditor - ISO9001:2015, ISO14001:2015 & OSHAS 18001:2007 Four-D Management Consulting Pvt Ltd

Languages

- English
- Hindi
- Marathi

Experience

☐ **Assistant Manager** | Apr 2018 – Dec 2022

Adani Transmission Ltd.

☐ **Senior Engineer** | Aug 2016 - Mar 2018

Adani Transmission Ltd.

☐ **Executive Trainee** | Feb 2016 - Jul 2016

Adani Transmission Ltd.

- Performing root cause analysis of bottlenecks / breakdowns and taking steps to rectify the equipment's through application of trouble shooting
- Anticipate problems, Analyze and solve a range of problems using standard procedures. Ability to use drawings, diagnostic data and field observations to troubleshoot HVDC Substation issue.
- Work with and coordinate consulting engineers of OEM to ensure and resolve HVDC (High Voltage Direct Current) system related issue in record time.
- Having experience of working with SIEMENS HVDC SIMATIC TDC, Logic Development in SIMATIC CFC, iba Transient fault recorder, OT network and SCADA system.
- Communicating with regulatory authorities like National & Regional load dispatch center for HVDC outages, power flow control, voltage regulation and trippings by keeping stakeholder's interest as top priority.
- Having good knowledge of Siemen's AG made valve Hall equipment's like rectifier circuit which includes thyristor, snubber and its associated equipment.

Education

- **Post graduate diploma in Transmission & Distribution**

Aug 2014 - Sep 2015

Power system training institute (NPTI), Bengaluru, Karnataka,

- **Bachelor of Technology**

Aug 2009 - May 2013

Dr. B. A. Technological University, Lonere, Raigad,, Maharashtra, India.

Major:Electrical Engineering

Project: Development of solar PV battery charge controller for rural electrification