

# ALAGUSELVAM.S

15 Year's Experience in Control & Instrumentation

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## **PROFILE SUMMARY:**

PLC, DCS Control & Instrumentation/Automation specialist grown from Major Power Plant - BTG & BOP across India.

1. Experience in Allen Bradley PLC, SCADA and MAX DNA DCS
2. Network System: Ethernet, Control Net, Modbus, OFC and Profibus
3. Office Tools: AutoCAD, Microsoft Office
4. Dedication to success of the group, which I ensure both by meeting my own deadlines and assisting teammates whenever possible
5. Ability to speak and write English at a professional level

## **EDUCATION:**

- 1. Bachelor of Technology (B.Tech) in Instrumentation & Control Engineering**  
Pondicherry University - Pondicherry.  
June 2003 to June 2007.
- 2. Higher Secondary Course Certificate (H.S.C.)**  
C.S.Govt.Hr.Sec.School - Pondicherry.  
March 2003.
- 3. Secondary School Leaving Certificate (S.S.L.C)**  
Jothi Vallalar High School - Pondicherry.  
March 2001.

## **PERSONAL DETAILS:**

- 1. Date of Birth:** 02-10-1984
- 2. Gender:** Male
- 3. Nationality:** Indian
- 4. Aadhaar Number:** 415064723648
- 5. PAN Number:** AZTPA0676L
- 6. Passport Details:** G2399019
- 7. Marital Status:** Married
- 8. Languages Known:** English(Speak & Writing), Tamil(Speak & Writing) & Hindi(Speak only)
- 9. Communication Address:** B-19 Awasiyar Parisar, Jhabua Power Plant Field Hostel, Barela-Gorakpur, Ghansor Tehsil, Seoni Dist, MadhyaPradesh, India.
- 10. Permanent Address:** #17, Pudhu Nagar, Chinna Kalapet, Pondicherry, India.

## **WORK EXPERIENCE:**

### **1. Present Employer: 1X600 MW Jhabua Power Limited**

AVANTHA POWER & INFRASTRUCTURE LIMITED. Power Generation Company Based at Seoni District In The State Of Madhya Pradesh. [www.avanthapower.com](http://www.avanthapower.com)

### **Designation: Manager (Control & Instrumentation)**

**Period:** February 2020 to Present

### **ROLE & RESPONSIBILITIES:**

1. Designing & Implementing systems and procedures to facilitate smooth functioning of overall project engineering and enhancing operational efficiency.
2. Development & performing of DCS/PLC logic & SCADA/HMI.
3. Commissioning & Development for BHEL Gravimetric Coal Feeder.
4. Testing & Calibration of field instruments.
5. Troubleshooting fault & rectification.
6. Acquaintance of PID tuning like process auto control loop parameter like Flow, Level, temperature & pressure.
7. Preparation RCA report & Trip analyzing through trend & Sequence of events (SOE) & Alarm.
8. Leading & following up day to day activities for Preventive Maintenance (PM) Corrective Routine Maintenance (CRM), Breakdown(BD), Defects, Modification, critical spare maintenance etc.,
9. Monitoring & rectification for Hardware healthiness for Rockwell PLC & MaxDNA DCS.
10. Implement Software skill related for PLC/ DPU upgrade, flashing, program Uploading/downloading ,online editing modifications, error clear, SCADA implementation etc.,
11. Implemented Third party communication between DCS & PLC through OPC Gateway. It's very effective & useful unified communication as Whole plant.
12. Implemented RTU-Modbus communication between DCS/PLC with Electrical Breaker's protection relay
13. Implemented Profibus communication between PLC & Encoder devices.
14. Achieved plant running full efficiency while short manpower (COVID-19 lockdown period) single Shift handled Boiler, Turbine, Generator (BTG-Area) and All BOP's-Area.
15. Coordinate with operation team for execution of Boiler Light-Up and Unit synchronization.
16. As per operation write-up Philosophy for PLC logic & SCADA implemented for CHP, BWSR, AHP, Raw-water Plant, Makeup Plant, IDCT, and CPU & RODM.
17. Taken in service for PLC synchronized with Primary & Secondary PLC for all BOP's PLC.
18. Leading manpower, Pre-scheduling for Shutdown activities with spare availability and Annual Overhauling work taken Key Responsibility Area of IDFAN, FDFAN, PAFAN, APH, Feeder, Mill, Burner, SADC, flame scanner, oil skid etc.,

## **2. Previous Employer: Chennai Radha Engineering Works (P) Ltd**

CREW (P) Ltd, Chennai, TamilNadu-Operation & Maintenance Service provider in Bulk Material Handling at Loading Ports & Power Plants worldwide. [www.crewpl.com](http://www.crewpl.com)

**Designation: Asst.Manager (Control & Instrumentation)**

**Period:** August 2010 to February 2020

### **ROLE & RESPONSIBILITIES:**

1. C& I-Maintenance activities for CHP, BWSR, Wagon Tippler & AHP
2. Involving Modification & Implementation for all Safety devices & Protection Devices for CHP, Stacker& Reclaimer.
3. Modification & Implementation for Transport Air Compressor, Instrument Air Compressor & Dryer for AHP area.
4. Trouble shooting equipment fault, PLC problem, interlock & protection issues
5. Ensuring equipment healthiness & follow up spares
6. Defect identification & rectification
7. Follow up safety awareness, SMP, SWP, Hazards identification & rectification & 5s implement etc.
8. Exposure to Rockwell software (RS logix-5, 500 & 5000 & SCADA-Factory Talk Studio)
9. Communication establishment in Ethernet, Control net, RS232, OFC, Modbus & Profibus.
10. Calibration of DP transmitter, pressure transmitter, flow transmitter & Temperature controller, Belt weighing scale.
11. Checking for all safety devices, level switch, pressure switch, temperature switch, flow switch & etc.

## **3. Previous Employer: Natural Capsules Ltd**

Empty Capsules Production & Manufacturing Company, Puducherry.

**Designation: Sr.Engineer (Control & Instrumentation)**

**Period:** August 2007 to July 2010

### **ROLE & RESPONSIBILITIES:**

1. Errection & commissioning for PLC system, CCTV, Smoke & Fire detector, Safety devices etc.
2. Developing PLC logic program & SCADA Display & ensuring alarm, trend & auto excel reporting through OPC communication.
3. Installing & commissioning Temperature control, servo drive with encoder , control valve , viscosity control, weighing system , printing system , VFD drive etc.,
4. PLC, SCADA, Drives based panel application development, commissioning and troubleshooting.
5. Field instrument (level transmitter, pressure transmitter, flow transmitter, level switch, pressure switch, temperature switch, flow switch & etc.) installation and wiring.

## **PROJECT HANDLED for BTG & BOP areas:**

- 1. Boiler-Purge Logic, MFT, PA Fan, FD Fan, Scanner Air Fans, Seal Air Fans, Burner Tilt, SADC, STLD, Flame Scanner, Oil Elevation, Mill & Feeder, BCW pump, Super Heater & Re-Heater Spray.**

Optimised Interlock Permissive & Protection as per write-up philosophy Logic condition developed & implemented by DCS programming with SCADA designing

- 2. Turbine & Generator –Turbine Oil System (AOP, EOP, JOP),HPCF, Seal Steam System, Condensate & Evacuation system, EHTC, ATRS/ATT, Turbine Protection & HP-Bypass & LP-Bypass system.**

Optimised Interlock Permissive & Protection as per write-up philosophy Logic condition developed & implemented by DCS programming with SCADA designing

- 3. CHP, AHP, WT, BWSR, RWPH, MAKEUP, IDCT, MRHS, RODM & CPU.**

Optimised Interlock Permissive & Protection as per write-up philosophy Logic condition developed & Modification by PLC programming with SCADA designing.

- 4. Wagon Tippler-2Nos, CHP & AHP**

- Commissioning & cable laying for Wagon Tippler C&I equipment devices
- Wagon Tippler Installed & Commissioning PLC & HMI with Control desk
- Configure with WT, CHP PLC RIOs, HMI & encoder device
- WT-1 & 2 New logic developed & trial taken successfully and handover to operation.
- Belt scale & weigh bridge installed in CHP & Wagon Tippler Area.
- Instrument Air dryer-1&2 Optimised with auto sequences in AHP
- Instrument Air Compressor-2Nos & Transport Air compressor-3Nos take in service for Remote operation by PLC

- 5. CHP-Belt Scale, Metal Detector, Chute block switch, Anemometer, Bunker Level, Pull cord & Belt-Sway switch, Zero Speed device, Encoder device**

- Installed & commissioning Belt Scale -4Nos.
- Installed & commissioning Metal detectors -4Nos
- Installed & commissioning Conveyor's pull cord & Belt sway switch with Modbus communication -140nos
- Installed & commissioning Chute Block Switch-8Nos
- Installed & commissioning bunker level sensor-9Nos
- Installed & commissioning Encoder for stacker/Reclaimer- luffing, slew, long travel & wagon Tippler, Side Arm charger travel position
- Installed & commissioning Zero speed device-20Nos

## **SKILLS / IT SKILLS:**

1. Microsoft office (10Years)
2. C, C++, Visual Basic, Java (2 Years)
3. PLC Programming- RSLogix 5, 500, 5000(14 Years)
4. SCADA Designing & Developing- RsView Studio, RSview32(14 Years)
5. DCS Programming & SCADA Developing- maxVUE Editor of MaxDNA (10Years)