

Freelance Profile SSK (6+ Yrs Exp in Industrial Automation)

S. Saravanakumar, B.E (EEE)

Mail : ssk.saravana90@gmail.com

Industrial Automation Engineer

Mob Nr : +919976016063

CAREER OBJECTIVE

To involve in projects with urging technologies to create technological advancement in Industrial Automation.

TECHNICAL SKILL SET

6+ Years Experience in Industrial Automation, Instrumentation, Erection & Commissioning.

- ✓ Expertise in PLC's Allen-Bradley (Micrologix, Compactlogix & Controllogix), GE (Series 90-30, Micro, Versamax, Rx3i), Schneider (Modicon Quantum & Premium), Siemens (S7 300, 400, 1200, Smart, Logo), Omron (CP, CJ, CQ), Delta etc ...
- ✓ Hands on experience in PLC logic, SCADA & HMI development.
- ✓ Worked in Erection & Commissioning of Plant & M/C Automation.
- ✓ Hands On Experience in PLC software like RS Logics 500 & 5000, PME, TIA Portal, Simatic S7, Unity Pro XI, CCW, Cx Programmer, Wpl Soft etc ...
- ✓ Expertise in SCADA & HMI development with tools like Factory Talk View FTV – SE & ME and GE CIMPLICITY, Vijeo Citech, Intouch Wonderware, WinCC, King View SCADAs, NB Designer Hmi, Dop Soft & Screen Editor HMI etc ...
- ✓ Experienced in Data logging and customized report generation using VB.Net application.
- ✓ Configuring & Commissioning of VFD (ABB, Parker , AB Power flex, Omron, Delta).
- ✓ Experienced in Instrumentation, Panel Wiring & Field Termination.
- ✓ Experienced in Project management skills like BOM, Cable Scheduling, Load list, Project plan, Control Philosophy, Work order, Process flowchart, P & ID, I/O list preparation, Project Write up, etc ...
- ✓ Experienced in Project management skills like BOM, Cable Scheduling, Load list, Had done communication with OPC, MODBUS RTU, MODBUS TCP/IP, PROFIBUS, Controlnet, Devicenet, Profinet & Ethernet protocols.

AREA OF INTEREST

- ✓ Industrial Automation.
- ✓ Energy Resources.
- ✓ Electronic Device & Electrical Machines.
- ✓ Device Integration & Up gradation.

NOTES

I handled all major brands of PLC SCADA HMI DRIVES's Automation in this field.

AB Rockwell Allen Bradley, GE, Siemens, Schneider, Omron, Wonderware, Delta, Fuji, INVT, Crouzet, etc ...

PROJECTS

Project-01 : Automatic Car Parking and Picking System (ACP)

Customer : MechciCadd, Chennai

Our System facilitates parking and picking of cars and similar vehicles in a multistoried automated system which will accommodate more cars or vehicles in less space. It is fully automated systems which parks and pick up the car without drivers assistance. It is a straight drive in and out system which will automatically changes orientation of the vehicle. It is highly efficient and effective system which is less expensive and can be implemented in densely populates areas of the country.

Project-02: Furnace and Batching Process Automation (FAB)

Customer: Sarda Meltals, Vizag

Our Project involves design, supply, installation and commissioning of batching system in a Ferro alloy unit for batching of Ferro, silicon and manganese using PLC and SCADA system for controlling and monitoring the whole process of the plant. And also we control furnace operation and electrode slipping movement.

Project-03: Oven Temperature Control (OTC)

Customer: CUMI, Tiruvotriyoor

Our Project involves design, development and implementation of oven temperature control process. We maintain & control the customer required temperature in each stages of the process (Ramping, Shoaking & Cooling) entered in SCADA. And also complete production report of the Oven.

Project-04: Water Treatment Plant Automation (WTP)

Customer: KSUDP, Aluva Kerala Govt.

Our Project involves design, development and implementation of Filter Bed Automation system comprising mainly of acquiring filter bed parameters and controlling flow through the beds and advising appropriate time upon which the automatic/manual back-wash is to be carried out. All the process can be monitored and controlled by SCADA in control room. And also complete production report of the WTP.

Project-05: Chaffer Slitter Rewinder (CSR)

Customer: MRF, Trichy

Our project involves automatic feeding, cutting, slitting and rewind the chafer material with respect to material tension. Based on the customer recipe selection the entire process will control. PLC, HMI, Drives are connected in Ethernet IP. Line Speed can be controlled by operator in HMI. And all the drives (Drum, Cutter, Winder, let off) power parameters shown in HMI.

Project-06: Auto Doffing Textile

Customer: Shakthi Engg, OEM Coimbatore

Our Project involves textile automatic doffing process with respect to material feeding and production calculation. It's a SPM Application for efficient and reliable production without man power.

Project-07: Auto Rotary Brick SPM

Customer: Star Engg, OEM Coimbatore

Our Project involves Automatic control of Rotary table Brick SPM with respect to material feeding and hydraulic power pack. It's a SPM Application for effective production.

Project-08: Water Supply Scheme (Pump House) 25MGD (WSS) Automation

Customer: GIDC Govt of Gujarat, Bharuch

Our Project involves design, development and implementation of Water Supply Scheme from river to pump house automation. The whole system comprising mainly of acquiring control with respect to flow, pressure, level, etc. All the pumps and valves process can be monitored and controlled by SCADA in control room.

Project-09: Up gradation of Intouch Wonderware SCADA with AB SCADA System

Customer: CHR Hansen Diary, US

Our Project involves SCADA design, development and up gradation of AB Control logix L72 RS view SCADA to Intouch Wonderware Archestra system platform SCADA.

Project-10: Up gradation of FATA Hunter Continuous Aluminum Caster Automation

Customer: PT Indo Aluminium Intikarsa Industri, Bekasi, INDONESIA

Our Project involves supply, installation and commissioning of Allen Bradley automation system (L72 control logix & Flex RIO's) and Parker DC drive 590+ with existing FATA hunter Caster casting system. The main task of the system is synchronizing the line speed with the casting Roller and Rewinder.

Project-11: 30MT Electric Arc Furnace and FES Automation

Customer: GECO Steel Limited Govt of Syria, Hama, SYRIA

Our Project involves Software installation and commissioning of Schneider Quantum 140 CPU PLC & Siemens S7300/400 PLC's. Our system controls Furnace operation, FES, Bag house, RLC & Hydraulic unit of the whole plant. And also monitoring & controlling of process parameters like panel temperatures, Oil & Water level, pressures, flow & Air pressures.

Project-12: Continuous Casting Machine (2 Strand & 3 Strand) Automation

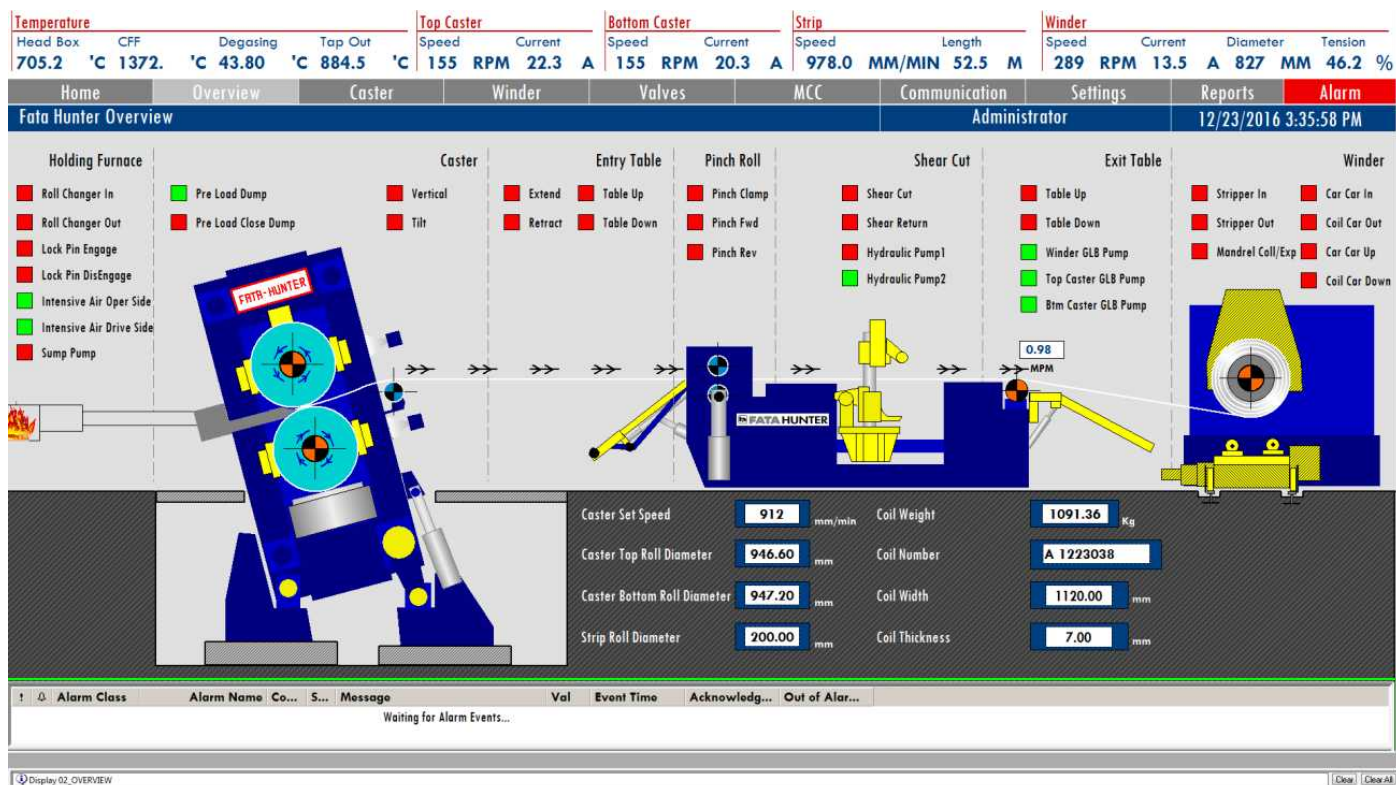
Customer: GECO Steel Limited Govt of Syria, Hama, SYRIA

Our Project involves Software installation and commissioning of AB Compact logix L35E PLC with Device net RIO's & Powerflex Drives. The main task of the system is to control the withdrawal motors speed with respect to mould level in the mould jacket. Our system has automatic control for primary & secondary water cooling. Auto cutter, DRT, Shifter, OHCT, TOCB & packeter operations are automatically controlled in our system. Production reports such as total length, total weight, total number of billets & casting start end period data's are logged in SQL data base and reports generated in pdf by using VBA code in factory Talk view.

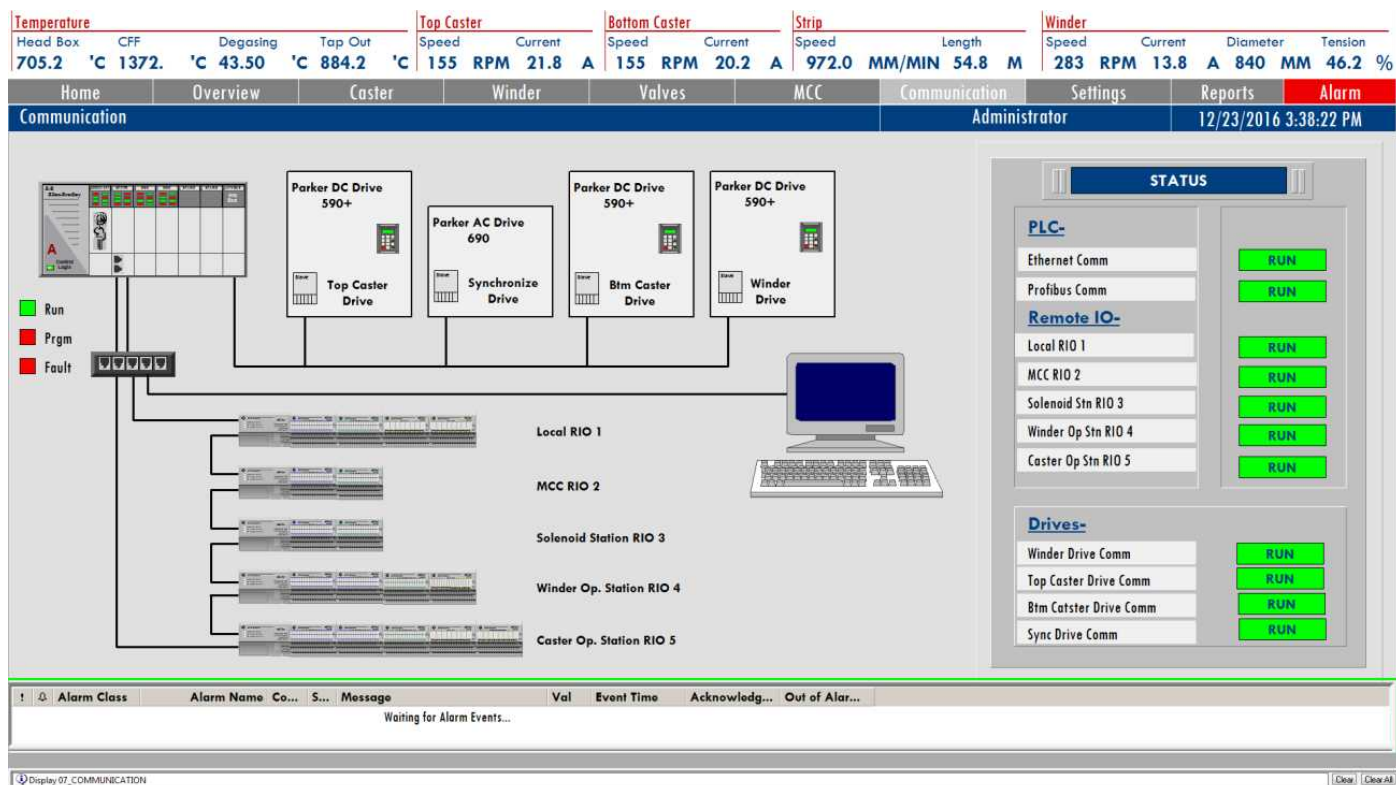
PERSONAL PROFILE

NAME	: S.SARAVANAKUMAR.
EDUCATION QUALIFICATION	: BE (EEE) & Dip (EEE).
PLACE	: TAMILNADU, INDIA.
LANGUAGES KNOWN	: English, Tamil & Malayalam.

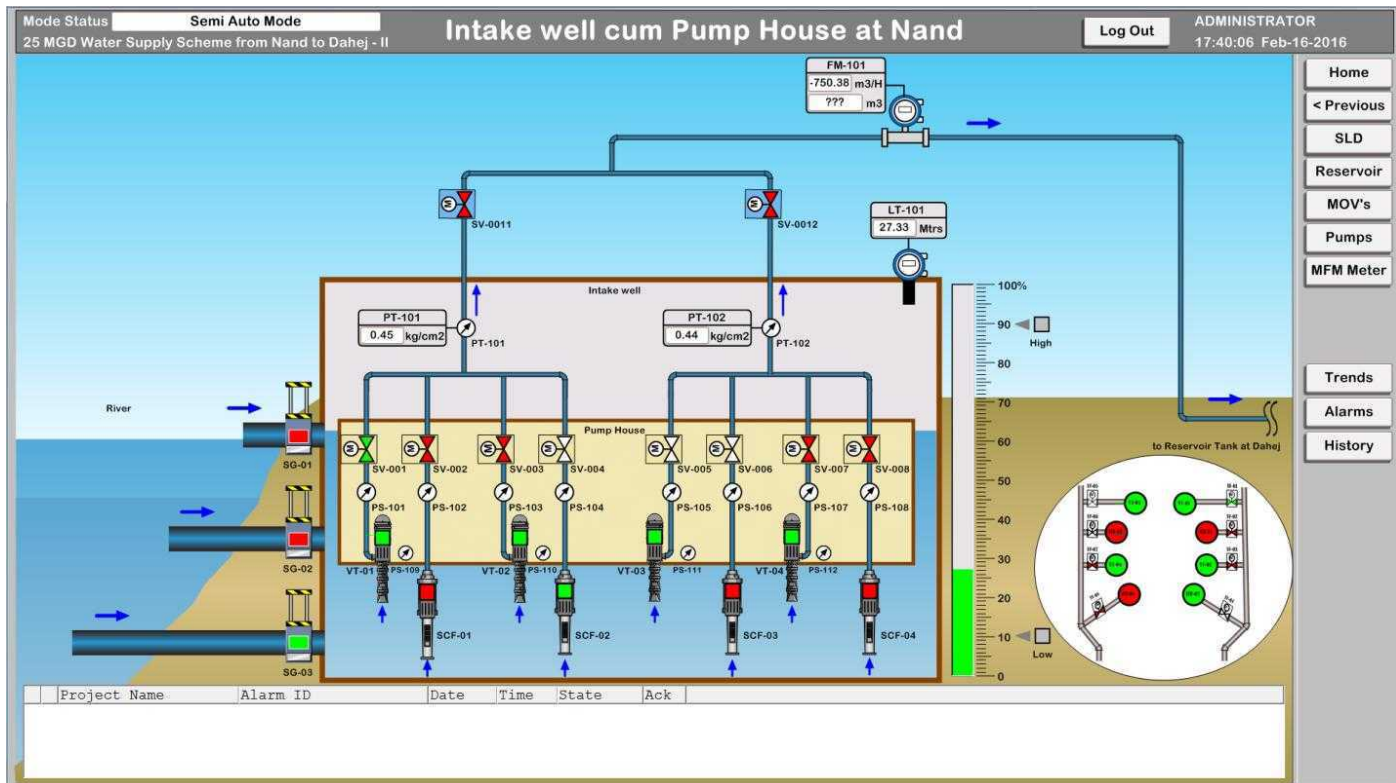
Some SCADA HMI Screens of my Projects



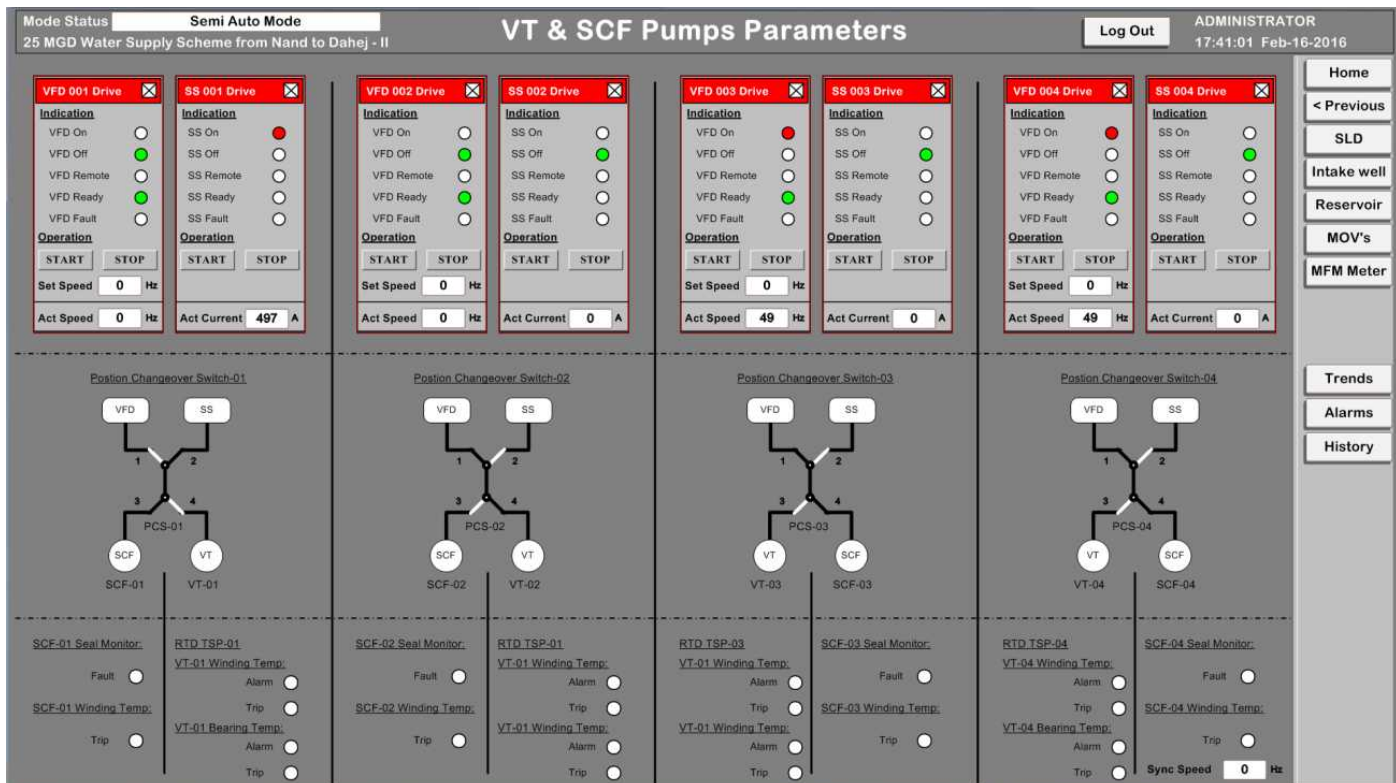
Caster Automation Overview (Allen Bradley FTV-SE)



Caster Automation System Architecture (Allen Bradley FTV-SE)



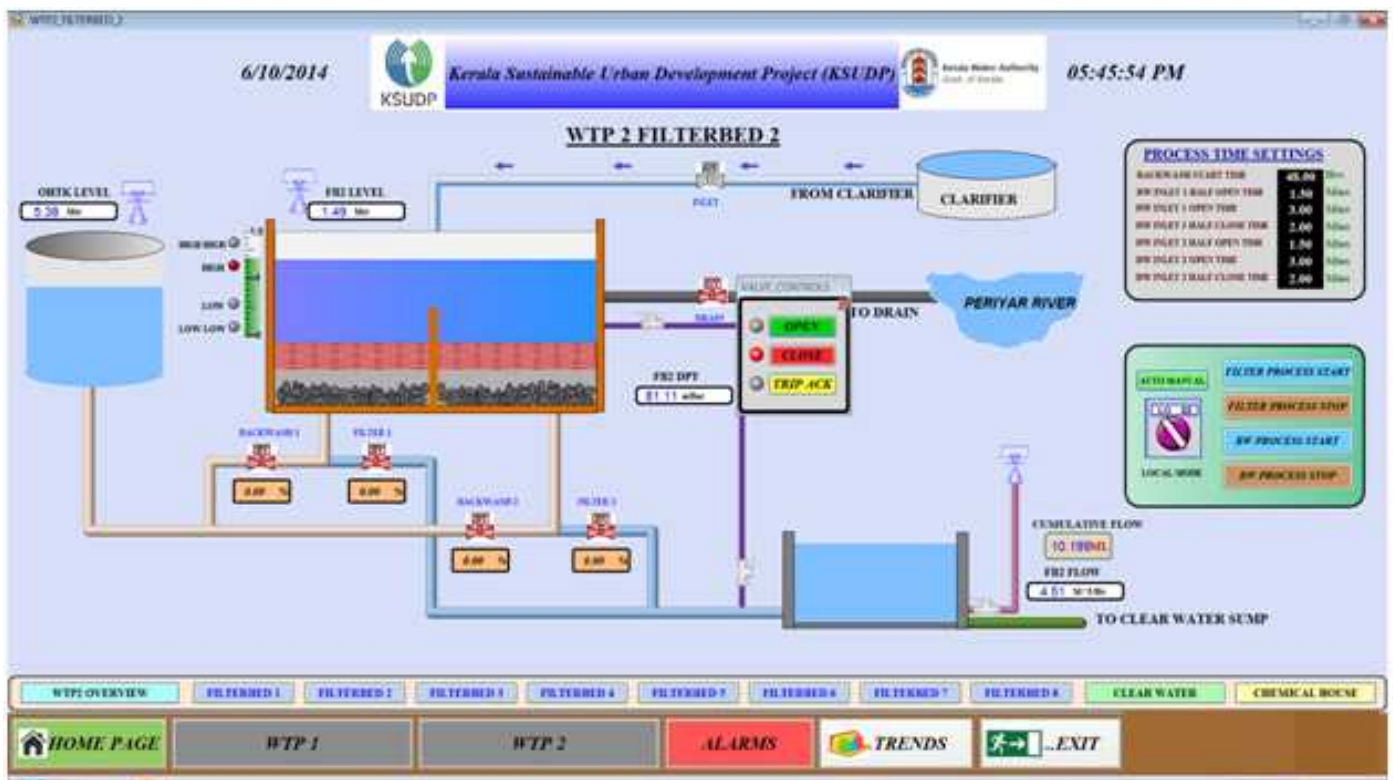
Pump House Automation Intake Well (GE Cimplicity)



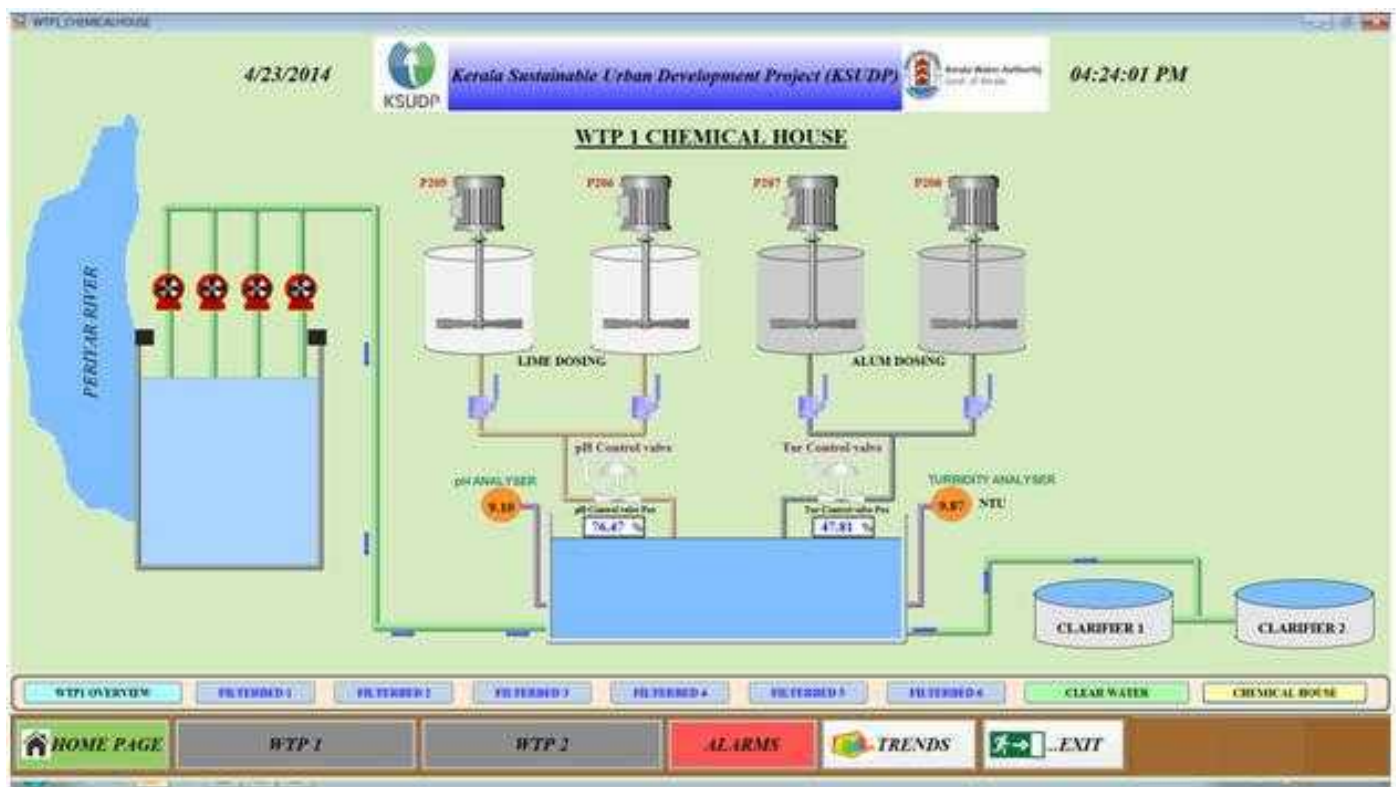
Pump House Automation Pumps Parameters & Control (GE Cimplicity)



WTP Filter beds Overview (Schneider Vijeo Citect)



WTP Automation Filter bed Controls (Schneider Vijeo Citect)



WTP Automation Chemical House Control (Schneider Vijeo Citect)

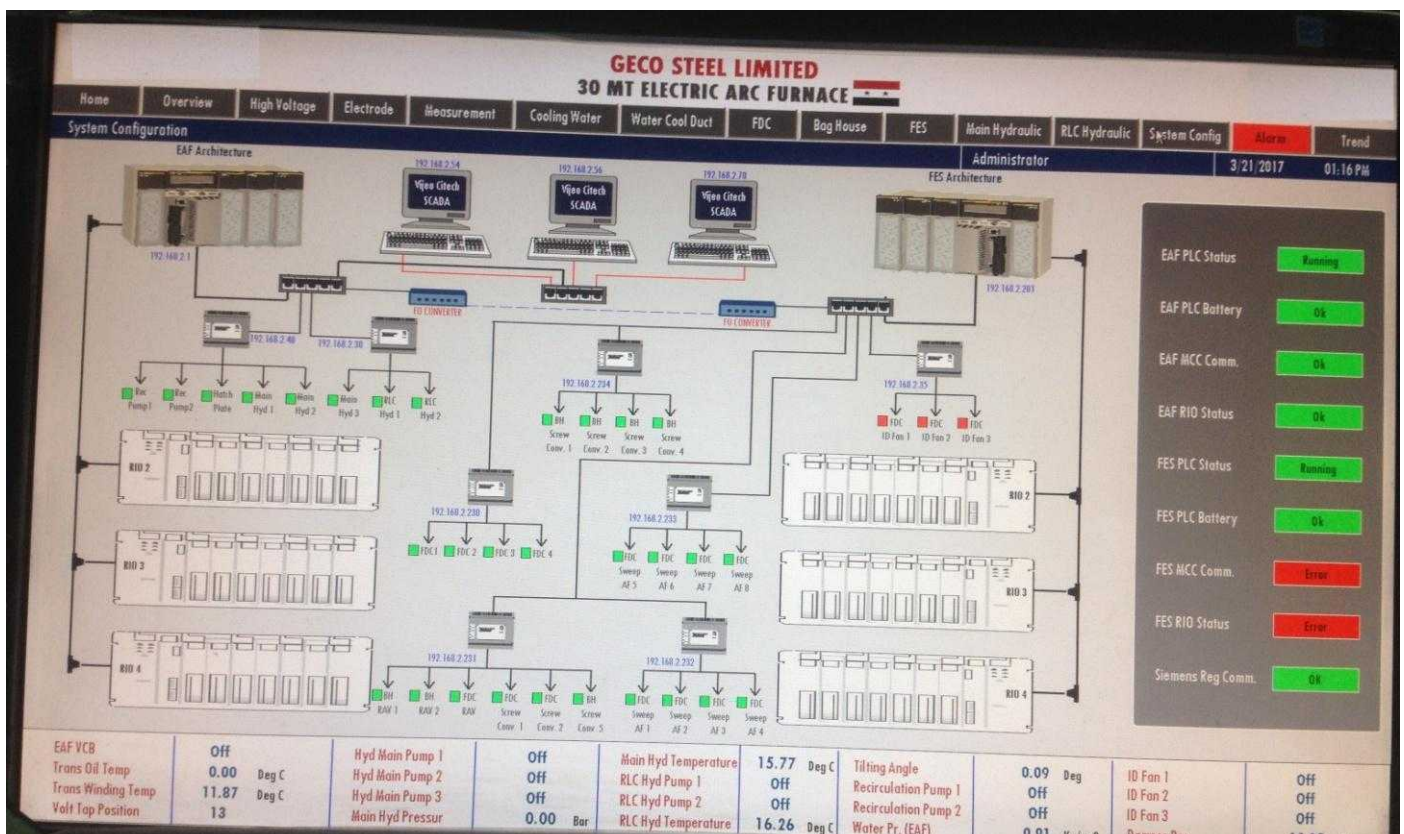
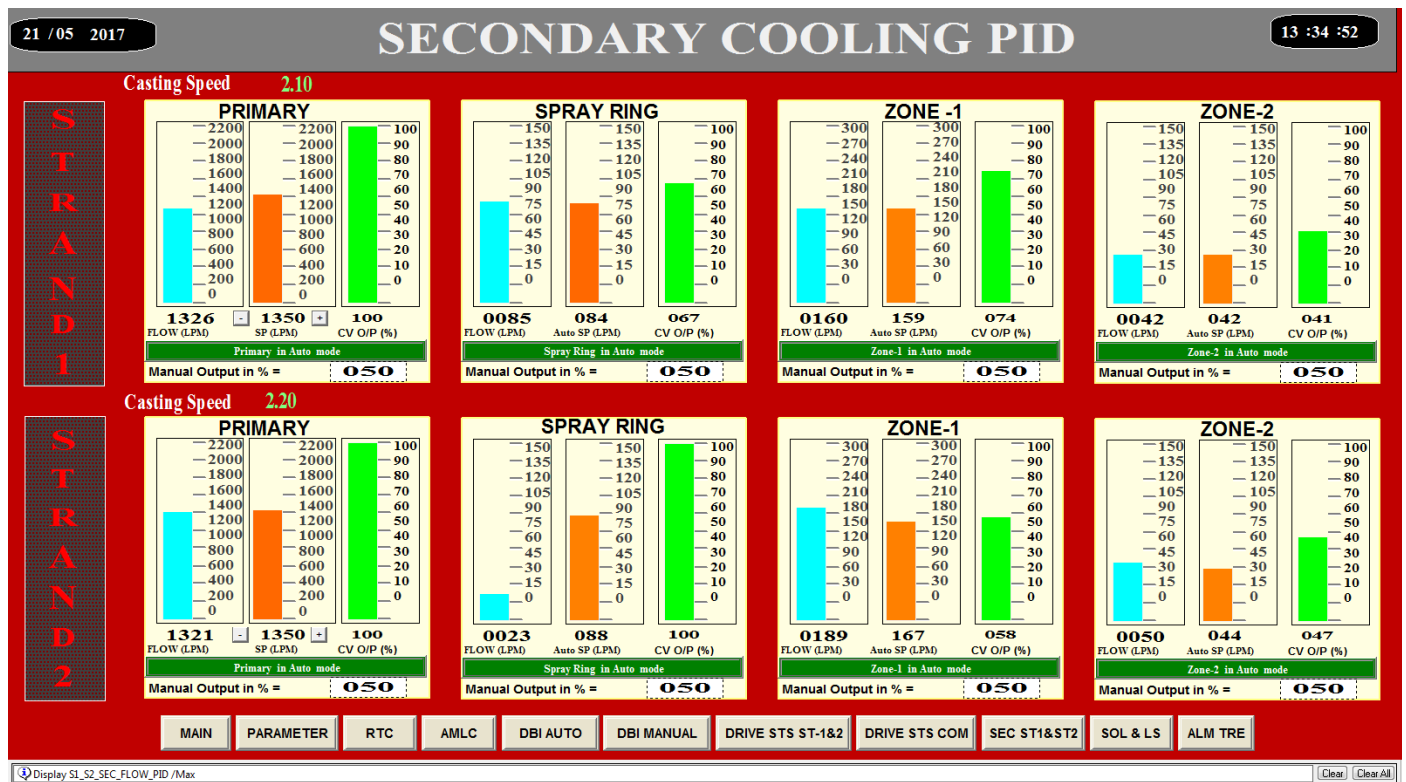


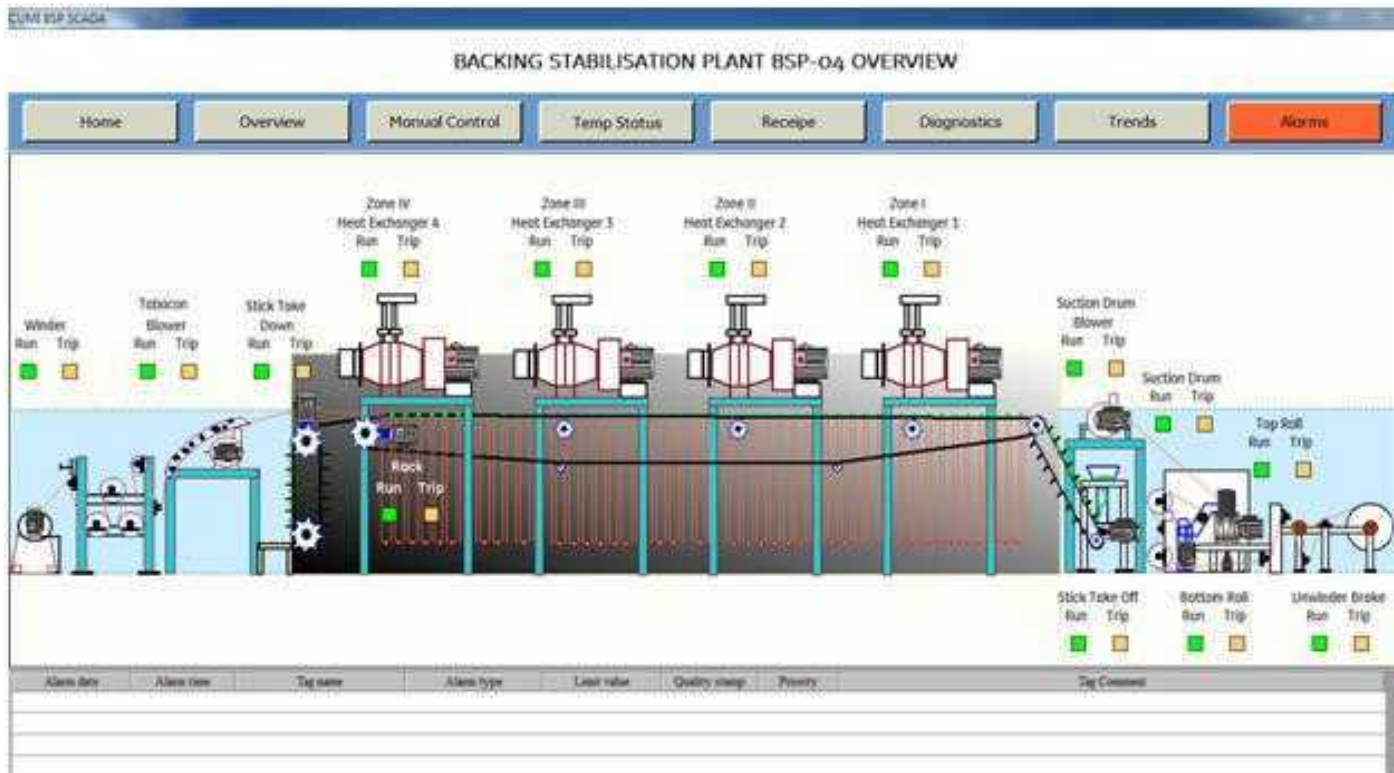
Illustration 1: EAF & FES Automation System Architecture (Schneider Vijeo Citect)



EAFAutomation Cooling Water Circuit (Schneider Vijeo Citect)



CCM Automation Primary Secondary Cooling PID (Allen-Bradley FTV-SE)



Backing Stabilization Plant Automation Overview (Wellintech - KingView)



Backing Stabilization Plant Automation Drive Controls (Wellintech - KingView)

Casting Speed 0.00

Parameter	Status	Frequency	Current	Fault/Reset
Mould Oscillation	Ready	00.00 Hz	00.00 Amp	Reset
Withdrawal Top	Ready	00.00 Hz	00.00 Amp	Reset
Withdrawal Bottom	Ready	00.00 Hz	00.00 Amp	Reset
Rigid Dummy Bar	Ready	00.00 Hz	00.00 Amp	Reset
AWF	Ready	00.00 Hz	00.00 Amp	Reset
CEPR	Ready	00.00 Hz	00.00 Amp	Reset
Auto Cutter Trolley	Ready	00.00 Hz	00.00 Amp	Reset
Auto Cutter Torch	Ready	00.00 Hz	00.00 Amp	Reset
Mould Lubrication	Ready	00.00 Hz	00.00 Amp	Reset

ALL DRIVE RESET

Casting Speed 0.00

Parameter	Status	Frequency	Current	Fault/Reset
Mould Oscillation	Ready	00.00 Hz	00.00 Amp	Reset
Withdrawal Top	Ready	00.00 Hz	00.00 Amp	Reset
Withdrawal Bottom	Ready	00.00 Hz	00.00 Amp	Reset
Rigid Dummy Bar	Ready	00.00 Hz	00.00 Amp	Reset
AWF	Ready	00.00 Hz	00.00 Amp	Reset
CEPR	Ready	00.00 Hz	00.00 Amp	Reset
Auto Cutter Trolley	Ready	00.00 Hz	00.00 Amp	Reset
Auto Cutter Torch	Ready	00.00 Hz	00.00 Amp	Reset
Mould Lubrication	Ready	00.00 Hz	00.00 Amp	Reset

ALL DRIVE RESET

MAIN PARAMETER RTC AMLC DBI AUTO DBI MANUAL DRIVE STS ST-1&2 DRIVE STS COM SEC ST1&ST2 SEC. PID ST3 SOL & LS ALM TRE

Display DRIVE_STATUS /Max

Clear Clear All

CCM Automation Drive Status (Allen-Bradley FTV-SE)

DECLARATION

I hereby declare that all the above furnished details are true to the best of my knowledge. Please feel free to contact any time.

Thanks & Regards

Saravanakumar S