**VICKY HUSEIN SIRAIT**

**INSTRUMENT ENGINEER ASSISTANT**

**CONTACTS**

 : +62 813 6462 1820

 : vicky.sirait@gmail.com

**EDUCATION**

**August 14th, 2014**

STATE POLYTECHNIC OF BATAM

Bachelor of Mechatronics Engineering

**SUMMARY EXPERIENCE**

* Have certification of CompEx 01 – 04, BOSIET + TsBB, OGUK, CERT (Company Emergency Response Team), etc.
* Review drawing and check the specification of Electrical and Instrumentation equipment and material refer to hazardous layout drawing, Execute the specific inspections of Electrical & Instrumentation material, equipment including construction and installation activities on site following specified procedure of **Hazardous Area** requirements and project specifications.
* Responsibility for Electrical & Instrumentation Inspection such as Motor, Electric heaters, Lightings, Chillers, Batteries, Generator, Distribution Board, Junction Boxes, Earth System, Cable Ladder/Tray, Heat Tracing System.
* Supervise & participates in repair, installation, maintenance and service activities on E&I and Building Utility Equipment’s such as lighting, earthling, junction box, and temporary Panel, Participate in reviewing detailed design drawings, method statements, material requisitions, Supervise and approve construction, maintenance activities and coordinate various aspects of project construction and maintenance including inspections, material submissions and working drawings from client, and processing documentation as required, Receives Work Order to ensure compliance with prescribed contractual specifications.
* Experience of calibration, troubleshoot, repair, and modification of wide variety of field instrumentation such control valve (motorize & pneumatic), gas & pH analyzer, transmitter (pressure, flow, temperature, level, vibration, etc), Instrument calibration & Testing, Pressure Safety Valve, Fire & Gas Devices, Gas Detector, Heat Detector, Smoke Detector, Fire Alarm System, etc.
* Familiar with Instrumentation & Control of :

 1. Coal & LNG Steam Boiler system (45 Bar).

 2. LNG High Pressure Steam Boiler system (65 Bar).

 3. Coal & LNG Oil Thermal Heater (OTH) system.

 4. Steam Turbine Generator (5 MW & 12 MW).

* Familiar with process control system Emerson Delta-V and other DCS, telecommunication PABX, Intercom and paging & radio system.
* Familiar of using communication protocol such as HART Communicator, Trex Device Emerson and BT200(Yokogawa).
* Familiar for Loop test, function test, loop check, trouble shoot.
* Have ability & capability to inspect all Electrical & Instrumentations equipment that installed in Hazardous Area as per project specifications.
* Familiar paper work & prepare document during preparation commissioning.

**WORK EXPERIENCE**

**PT. ECOGREEN OLEOCHEMICALS BATAM:**  **2011 – Present**

1. **2021 – present (EOMB Plant Project) as *Instrument Engineer Assistant***
* Inspection with construction team before handover to commissioning team, prepare permit to work before starting loop check, Prepare drawing and document CTR, Loop test and loop check, Trouble short and line check cable, Calibration equipment and function test equipment, Inspection and test FIRE ALARM SYSTEM.
* Supervise contractor job related to Pre-Commissioning and Commissioning activity and provide Permit to Work (PTW) or Safe Work Permit (SWP) and Lock-Out and Tag-Out (LOTO) and other safety procedures & prepare document for Pre-Commissioning and Commissioning activity
* Supervise and carry out maintenance and repair activities for all instrument equipment, DCS and operational facilities effectively and efficiently so that they can operate normally and achieve predetermined targets and meet work safety criteria.
	+ Perform Pre-Commissioning and Commissioning Fatty Alcohol Plant, ***Hydrogenation Plant***, Fatty Acid Plant, Power Plant & OTH Plant, Utility Plant (WTP, WWTP, utility & air instrument).
	+ Involves in Project construction completion(new plant) check and walkthrough, pre-commissioning, commissioning, start-up activities, Site acceptance tests, and Performance tests as directed by Lead/Senior Commissioning Engineer and advice from respective discipline Engineer to achieve project scope and Operations Readiness objective.
	+ Involves in construction completion(new plant) check and walkthrough, pre-commissioning and commissioning activities, instrument loop checks, functional checks, purging, inerting, Hydro tests of valves and piping/pipeline, safety checks, Site acceptance tests, performance teste etc. as directed by Lead/Senior Commissioning Engineer and advice from respective discipline Engineer;
1. **2019 – 2021 (EOB#3 Plant Project) as *Instrument Engineer Assistant***
* Inspection with construction team before handover to commissioning team, prepare permit to work before starting loop check, Prepare drawing and document CTR, Loop test and loop check, Trouble short and line check cable, Calibration equipment and function test equipment, Inspection and test FIRE ALARM SYSTEM.
* Prepare document for Pre-Commissioning and Commissioning activity.
* Supervise contractor job related to Pre-Commissioning and Commissioning activity and provide Permit to Work (PTW) or Safe Work Permit (SWP) and Lock-Out and Tag-Out (LOTO) and other safety procedures.
	+ Perform Pre-Commissioning and Commissioning Fatty Alcohol Plant, ***Hydrogenation Plant***, Methyl Ester Plant, Power Plant & OTH Plant, Utility Plant (WTP, WWTP, utility & air instrument), Pastillation plant & Weighing Bridge.
	+ Involves in Project construction completion(new plant) check and walkthrough, pre-commissioning, commissioning, start-up activities, Site acceptance tests, and Performance tests as directed by Lead/Senior Commissioning Engineer and advice from respective discipline Engineer to achieve project scope and Operations Readiness objective.
	+ Involves in construction completion(new plant) check and walkthrough, pre-commissioning and commissioning activities, instrument loop checks, functional checks, purging, inerting, Hydro tests of valves and piping/pipeline, safety checks, Site acceptance tests, performance teste etc. as directed by Lead/Senior Commissioning Engineer and advice from respective discipline Engineer;
1. **2011 – 2019 (EOB#1 & EOB#2 plant - Production) as** *Sr. Instrument & Control Technician*
	* Perform and carry out maintenance, troubleshooting and repair of the instrumentation and control system equipment of the plant such as Transmitter, Signal Converter, Analyzer, Electronic Card, Control Valve, Flow Meter, Pressure, Level, Temperature, DCS, PLC, PABX, Intercom, Pneumatic and other accessories related to it. Knowledge of PID, HART and Field Bus communication.
	* Perform monthly preventive maintenance Instrument & Control System for Methyl Ester Plant, Fatty Alcohol Plant, Utility Plant (Oil Thermal Heater (OTH) Plant, Water Treatment Plant, Waste Water Treatment Plant, Water Cooling Tempered, Power Plant, etc.).
	* Involves plant shutdown activity such as overhaul control valve & ON/OFF valve, calibrate transmitters (pressure, flow, temperature, level, and pH analyzer), repair instrument & control system of OTH burner, Boiler, Turbine Generator and also Fire Alarm System.
	* Assisted plant production operator for starting-up plant such as function test of control valves & ON/OFF valves, check readiness of transmitters, etc.
	* Participates actively in the analysis of any instrument equipment breakdown and recommends solutions.
	* Perform and carry out Safety Fire alarm system simulation as per schedule, and repaired or modified if needed.

**PT. MINI INDAH**: Jr. Instrument Technician **2010 – 2011**

1. Assisted PT. ECOGREEN’s Technician to perform Pre-Commissioning and Commissioning Hydrogen Plant and R&D mini plant.
2. Assisted PT. ECOGREEN’s Technician to carry out preventive maintenance of the instrument equipment of the plant as scheduled and fill in the maintenance daily activities, maintenance history file, PM report and all necessary data related to the maintenance performed.

**CERTIFICATES**

1. **CompEx 01-04 (Competency in Explosive Atmosphere)**

Certificate Number : 80457066

Certified : **EEMUA & JTLimited**

Training Units :

* Ex 01 – Preparation and Installation of Ex’d’,’e’,’n’ & ‘p’ Electrical Equipment.
* Ex 02 – Inspection and Maintenance of Ex’d’,’e’,’n’ & ‘p’ Electrical Equipment.
* Ex 03 – Preparation and Installation of Ex’i’ Equipment and systems.
* Ex 04 – Inspection and Maintenance of Ex ‘i’ Equipment and systems.
1. **BOSIET.**

Certificate number : 131157072910225009

Certified : BSTC – OPITO APPROVED

Training units :

* Offshore Safety Induction
* Sea Survival
* Helicopter Under Water Escape Training(HUET)
* TEMPSC Evacuation
* Fire Fighting & Self Rescue
* Emergency First Aid
* Hypothermia & Travel Safety by Boat
1. **Firefighting (In house training).**
	* + Basic Fire (Classes of fire/ Anatomy of fire)
		+ Methods of fire extinguishment
		+ Inhibiting the flame chain reaction
		+ Fire Handling Procedure
		+ Evacuation Plan and Exit routes
		+ Fire Fighting
		+ Uses of Fire Prevention Facility
		+ Hose & Nozzle handling.
		+ **SCBA (SELF CONTAINED BREATHING APPARATUS).**

**IN HOUSE TRAINING**

**1. Company Emergency Response Team (CERT).**

* Improving preparedness and response (before, during, and after disaster)
* Improving technical skills of the responders
* Improve coordination of disaster response
* Quality and availability of emergency management tools
* Raise the expertise level
* Conducting awareness program in the work vicinity and community
* Mock drill to ensure proper coordination
* Effective preparedness and response

**2. Delta V ver. 11 Implementation (In house training).**

* + - System Overview
		- Explorer
		- Control Studio
		- Alarms & Process History View
		- Motor Control
		- Regulatory Control
		- Workspace
		- System Operation
		- Sequential Function Charts
		- Phase Logic
		- Control Modules

**3.Samson Valve Technical application (In house training).**

* + - Basic Theory of Samson valve
		- Valve Calibration
		- Overhaul valve
		- Troubleshoot
1. **Valtek Valve (Flow Serve) Technical application (In house training).**
	* + Basic Theory of Samson valve
		+ Valve Calibration
		+ Overhaul valve
		+ Troubleshoot

I declare that the above details are true and I undertake to produce the appropriate documents on request.

**Sincerely,**

**VICKY HUSEIN SIRAIT**