

JOHAR BIN MUSA

Contact Info

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Personal Particulars



Age : 52 years old
Nationality : Malaysia
Marital Status : Married
Permanent Residence : Malaysia
Date Of Birth : 17 February 1972
Gender : Male
I/C No. : 720217-11-5163
Religion : Islam
Health : Excellent
Position : Technician



Educational Background

Highest Education

Major : Diploma in Electrical & Electronic Engineering
Institute : Universiti Teknologi Mara(UiTM), Shah Alam
Located In : Shah Alam **Graduated** : 1997

Secondary Education

Level : Certificate in Electrical Communication
Institute / School : Politeknik Kuching
Located In : Sarawak **Graduated** : 1992

Experience

FRONT TECH ENGINEERING SDN BHD

NOVEMBER 2024-PRESENT

Scope of Work	: Instrument Technician <ul style="list-style-type: none"> Performing any site visit which related to any ITB especially for any OnG, PETCHEM works. Participate the meeting and deal between with Senior/ Manager Electrical/Instrument and vendor regarding any technical problem. Report to engineer. <p>Project Description:-</p> <p>i. Plant : PGB-UG Position : Instrument Tech Duration : December 2024 Job involved : Turnaround NGU2</p> <p>ii. Plant : PGB-UK Position : Instrument Tech Duration : October-November 2024 Job involved : Turnaround NGU3</p>
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PETRONAS CARIGALI SDN BHD

JULY 2022-OCTOBER 2023

Scope of Work	: WORK LEADER & SENIOR INSTRUMENT TECHNICIAN <ul style="list-style-type: none"> - To responsible as a work leader at work site. - Preparation of E-PTW(Permit to work) prior to performing the tasks at work sites. - To carry out for any tasks at work sites such as electrical and instrument works, mechanical and civil works. - To responsible and perform PPM Fire and gas panel related to gas detector, smoke detector, PAGA system. - To perform calibration and troubleshoot on field instrument devices such as all instrumentations (transmitters, control valves, switches). - Troubleshoot on gas turbine due to was tripped.
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Scope of Work	: ELECTRICAL AND INSTRUMENT SENIOR TECHNICIAN (CONTRACT STAFF)
	<p><u>Electrical Work Scope</u></p> <ul style="list-style-type: none"> - Electrical of single and three phase electrical motors. - Control panel wiring at Junction box and MCC (Motor Control Centre). - Maintenance and troubleshooting of AC and DC motors. - Lighting system of the plants. - Electrical panel wiring. - Perform on transformer maintenance. - Carried out to provide system alarm of the plants. <p><u>Instrument Work Scope</u></p> <ul style="list-style-type: none"> - Troubleshooting on Steam Turbine unable to load as per requirement power consumption. - Calibration on transmitters, switches, control valves and filed instrument. - Troubleshooting the DCS (Distributed Control System & SIS (SHUTDOWN INSTRUMENT SYSTEM)). - Troubleshooting on Chiller Compressor due to unit unable to startup. - Troubleshooting on Chiller Compressor due to unit unable to startup. - Level Switch Sensors. - Pressure, Flow, Level Transmitter. - Troubleshooting on Flow Meter due to unit unable to obtain flow rate as per requirement. - Control Valves and Analyzer H₂S and Oxygen.

Scope of Work	: INSTRUMENT TECHNICIAN
	<ul style="list-style-type: none"> - Performed Troubleshooting, Rectify, Preventive Maintenance (PM) for all kind of Instrumentations, Critical Device Function Test (CDFT) and improve performance standard of FPSO equipment. - Troubleshooting and start up while Turbine Gas Compressor (Solar Mars 100) and Turbine Gas Generator (Solar Taurus 60) failure. - Troubleshooting and start up while Turbine Gas Compressor (Solar Mars 100) and Turbine Gas Generator (Solar Taurus 60) failure. - Performed function test for Fire and Gas System such as Gas detector, Flame Detector, Smoke Detector and etc.



Scope of Work	: ELECTRICAL AND INSTRUMENT TECHNICIAN <ul style="list-style-type: none"> - Carry out maintenance on Gas Turbine and Turbo Gas Compressor specialized for the Solar Centaur, Solar Mars, Solar Taurus, Solar Titan and Solar Saturn. - To responsible supporting on Solar Turbine and Rolls Royce packages for the machine. - Perform 4KPPM, 8KPPM on Turbine Generator and Turbo compressor sets. - Carry out boroscope of the Power Turbine Compressor, Gear Box and Engine section. - Troubleshooting on Solar Turbine and Rolls Royce packages. - Assist for the engine, compressor, power turbine, gear box removal. - Perform detergent wash on Solar Turbine and Rolls Royce packages. - Perform loop check for the instrumentations and electrical devices. - Execute of the download program for the machine. - Carry out removal Dry gas seal, bearing pads, Rotor shaft power turbine, compressor bundle and accessory drive on equipment. - In order to standby at any platforms to troubleshooting the machine possibility to shutdown.
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Scope of Work	: ELECTRICAL AND INSTRUMENT TECHNICIAN <p><u>Electrical Work Scope</u></p> <ul style="list-style-type: none"> - Carry out monthly on switchgear such as ACB and VCB breakers. - Replaced lighting non explosion proof type to EX type. - Service on ACB, VCB, MCCB breakers during shutdown period. - Troubleshooting on starter control panel and logic motor unable to start the unit. - Perform transformer oil replacing ,check cooling system, tap changer and top up N2 for jacket transformer. - Monitoring and power up electrical system at switchgear room. - Perform maintenance on HVAC and troubleshooting the unit. <p><u>Instrument Work Scope</u></p> <ul style="list-style-type: none"> - Calibration on pneumatic control valve, float level measurement such as DP and Radar Type. - Carry out Fire and Gas system Equipment function test Smoke, Heat, Flame and Gas detectors. - Calibration and loop test on Pressure, Level and Flow transmitters. - Calibration and loop test for all field instrument such as ABB, FISHER AND YOKOGAWA especially for the transmitter, switches and the valve. - Troubleshooting for all instrumentations due to indicate fault alarm.
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Scope of Work	: INSTRUMENT TECHNICIAN - Handle the SIS (System Instrument Shutdown) and FGS (Fire and Gas panel) for testing the devices. - Perform the SIS cause and effect ESD, FGS and PSD to all system as per SIS data sheet. - Perform and Commissioning all the system instrumentation that are related to FPSO. - Do punch list to all the instrument as per FPSO requirement data sheet.
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Scope of Work	: INSTRUMENT AND ELECTRICAL TECHNICIAN CUM PRODUCTION TECHNICIAN <u>Instrument Work Scope</u> - Calibrations on pneumatic control valve, float measurement, cariolisis meter. - Carry out Marine Fire and Gas system Equipment function test Gas, Heat, smoke and UV detectors. - Updating and monitoring MP2(Maintenance Planning Version-2) for the planned maintenance system works. - Troubleshooting for motorized valves unable to operate as healthy conditions. - Calibrations on pneumatic control valve, float measurement, cariolisis meter. - Carry out Marine Fire and Gas system Equipment function test Gas, Heat, smoke and UV detectors. - Updating and monitoring MP2(Maintenance Planning Version-2) for the planned maintenance system works. - Troubleshooting for motorized valves unable to operate as healthy conditions. <u>Electrical Work Scope</u> - Monitor up essential electrical such as power generation main diesel generator and emergency generator. - Participate on synchronizing Main Generator 480vac and synchronizing gas turbine generator 4.16KV. - Installations of 1phase and 3phase electrical motors. - Preparations for the control panel wiring.
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	<ul style="list-style-type: none"> - Maintenance and troubleshooting of AC and DC motors. -Troubleshooting lighting system @ accommodation and at the field. - Maintenance on HVAC system and split unit air conditioning systems. - Provide troubleshooting on starter control circuit and logic motor unable to operate. - Participate on normalize power supply during power dipped. -Carry out preventive and corrective maintenance on UPS and Batteries systems. - Participate on transformer maintenance. - Troubleshooting and rewiring control starter panel and motor control. - Maintenance on UPS and troubleshoot the unit unable to produce the voltage. - Participate switch over diesel main generator 480Vac to emergency generator 480Vac due to carried out preventive maintenance. <p><u>Production Work Scope</u></p> <ul style="list-style-type: none"> -Perform on well testing to obtain oil and gas flowrates. - Participate on bunkering diesel fuel and water. - Perform pm on all safety fire equipment such as Firemonitor, CO2, PDC and helicopter crash box. - Perform top up diesel fuel to day and settling tank to determine optimum level. -Perform divert well while the well from header production to on test well. - Participate during the process upset and bring back on line the wells. - Troubleshooting on Wellhead control panel unable to flow the well. - Perform take sampling such as crude for the well in flowing position. - Participate during chopper landing as a fire fighter. - Perform on start water maker and monitoring the optimum level as necessary. - Participate on start Fire water pump and Emergency water pump. - Top up lube oil for the main generator and emergency generator as necessary. - Involve on start gas turbine generator and monitoring the parameters. - Update Daily report for referring purposes. - Performed greasing at Christmas Tree valves as periodically.
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Scope of Work	: INSTRUMENTATION CONTROL AND ELECTRICAL TECHNICIAN SPECIALIST -Responsible to maintain on gas turbine especially for the Solar Centaur, Solar Mars, Solar Taurus, Solar Titan and Solar Saturn. - To sustainable for the gas turbine of the ROLLS ROYCE packages. - Perform 4KPM. 8KPM AND 16KPM on Turbine generator and Turbine compressor sets. -To carry out for the inspections of the Power Turbine (PT), Compressor (15MB,25MB), Gear Box and Engine side. - Participate regarding of the trouble shooting on Solar Packages, Rolls Royce Packages, Hispano Suiza and Kongsberg gas turbine's. - Assist for the engine change out such as Solar Turbines, Rolls Royce, Hispano Suiza and Kongsberg engines. -Involve to perform detergent wash on Solar Turbines, Rolls Royce, Hispano Suiza and Kongsberg engine. - Reinstate on the Power turbine (PT) and Gas Generator (GG) for the gap voltage. - Recheck and confirm all the instrumentation and electrical in healthy conditions such as set gap voltage, RTD resistance conditions and motor conditions. -To determine and execute for download programs especially Turbine generator and Turbine compressor sets. - To carryout loop check on instrumentations and electrical whether is healthy or unhealthy conditions. - Assist to removal Dry Gas Seal (DGS), bearings, rotor shaft for power turbine (PT) and compressors bundle.
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Scope of Work	: INSTRUMENT SUPERVISOR (CONTRACT STAFF) -Supervise and assist for removal and reinstallation of the temperature element such as thermocouple and Resistance temperature detector (RTD) @ Reactor. -Supervise and assist for removal and reinstallation of the valve actuator, control valves, hand valves. -Supervise and assist for dismantle all existing tubing for the Analyzer Panel. -Involve on calibration for the CO2 Analyzer, O2 Analyzer, Air dryer dew point Analyzer, H2S Analyzer. -Supervise and assist for removal and reinstallation all level gauges. -Involve on hook up and commissioning for preparations plant start up.
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Scope of Work	<p>: ELECTRICAL AND INSTRUMENT SUPERVISOR (CONTRACT STAFF)</p> <p><u>Instrument Work Scope</u></p> <ul style="list-style-type: none"> -Supervise and involve on installation, hook up, calibrate one (1) of new Radar level transmitter. - Supervise and involve on installation, hook up, calibrate one (1) of new temperature transmitter. - Supervise and involve for disconnect and remove instrument tubing and fitting from flow element to flow transmitter. -Supervise and involve for disconnect and remove one (1) of number existing d/p flow transmitter together with the instrument cable to the existing Junction Box. -Supervise and involve on modification and installation new cable trays for the new instrument items. -Supervise and involve on DCS panel rewiring works. <p>Supervise and involve on hook up and commissioning for plant start up.</p> <ul style="list-style-type: none"> -Supervise and assist for commissioning of the valve actuator. -Supervise and involve for reinstallations of the temperature transmitter and pressure gauges. <p><u>Electrical Work Scope</u></p> <ul style="list-style-type: none"> -Supervise and involve on installation for new lighting at site. -Supervise and involve on installation for new junction box. -Supervise and involve on pull, gland and terminate lighting cables at site. -Supervise and involve on relocate junction box, lighting and reinstall cable trays. -Supervise and involve on Diesel Generator set works at site. -Supervise and assist for power up facilities at site. -Updating and monitoring CMMS (Computerized Maintenance Management System) for Electrical and Instrument works. -Supervise and assist for troubleshooting and rewiring starter panel and motor control. -Supervise and monitor for servicing ACB, VCB, MCCB breaker during shutdown period and carried out for switching for the breakers. -Supervise and monitoring for power-up electrical system @ Substations. -Supervise and involve for installation of single and three phase electrical motors. -Supervise and monitor for transformer maintenance. -Supervise and involve on maintenance and troubleshooting of AC and DC motors.
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Scope of Work	<p>: ELECTRICAL AND INSTRUMENT TECHNICIAN (CONTRACT STAFF)</p> <p><u>Instrument Work Scope</u></p> <ul style="list-style-type: none">-Instrument and Electrical Technician onboard during provision for Hook-up and commissioning of Petronas Carigali Facilities (Bakau and Betty Field) for 2007-2010.-Performed functioning test and calibration of Actuated Ball Valves, Pressure Pilots, Pig Signallers, Pressure gauges, Pressure Recorders.-Involved on installations of Pressure Gauges, Pressure Pilots, Pig Signallers, Pressure Recorders, Volume Bottles and Timer Circuits.-Performed leak test new impulse line tubing for Pressure Recorder.-Involved on functional shutdown loop test for Actuated Ball Valve.-Executed on Bakau and Betty Field for alarm and Shutdown Matrix Test. <p><u>Electrical Work Scope</u></p> <ul style="list-style-type: none">-Involved on fabricate, install trays supports and install new 150mm wide cable trays at new extension deck @ Main Deck.-Install new lighting junction box (J.B) and lighting fixtures at the new extension deck.-Pull, gland & terminate lighting cables at the new extension deck.-Remove existing Emergency lighting and including associated cables & junction box.-Relocate junction box, lighting fixtures and reinstall cable tray for Emergency Lighting @ Below Scraper Deck.-Repull, regland & reterminate lighting cables for Emergency Lighting @ Below Scraper Deck.-Fabricate, install supports & install new 150mm wide cable trays at the new extension deck (CRUDE LAUNCHER).-Install new lighting junction box and lighting fixtures at new extension deck (CRUDE LAUNCHER).-Pull, gland & terminate lighting cables at new extension deck (CRUDE LAUNCHER).-Install earth boss & cables to new CI Skid @ Main Deck.-Install earth boss @ cables to new Launcher @ Cellar Deck.-Touch-up paint for Electrical Supports.-Remove existing Cathodic Protection cable @ Junction box.
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Scope of Work

: ELECTRICAL AND INSTRUMENT TECHNICIAN (PERMANENT STAFF)**Electrical Work Scope**

- Electrical and Instrument Senior Technician onboard FPSO Vessel's, engine room, Process deck and accommodation.
- Monitor up and essential electrical and instrument equipment for supporting oil/gas/power generation and water injection system.
- Involved Synchronizing Gas Turbine Generator 4.4KV and synchronizing Diesel Generator 440V.
- Troubleshooting for Air Conditioning split unit and A.H.U unit system.
- Carry out monthly inspection on MV and LV switchgear, G.S.P (Group Starter Panel) and Main Switch Board.
- Replaced lighting non explosion proof type to EX type.
- Involved Synchronizing Diesel Generator and Turbine Generator when offloading.
- Assisted services ACB, VCB, MCCB breaker during shutdown period.
- Provide troubleshooting on starter control circuit and logic motor when disable to start.
- Monitor and rectify auxiliary turbine problem.
- Normalize power supply during total power failure.
- Involved perform transformer oil replacing, check cooling system, tap changer and top up N2 for jacket transformer.
- Monitoring and power up electrical system (LV and MV switch gear).
- Carry out preventive and corrective maintenance on UPS and Battery.
- Involved Synchronizing DG to GT and DG to DG.
- Troubleshooting and rewiring control starter panel and motor control.
- Maintenance on crane such as hydraulic system and electrical system.

Instrument Work Scope

- Provide surveillance during offloading operation.
- Calibrations pneumatic control valve, float level measurement.
- Carry out Fire and Gas system Equipment function test smoke, Flame and Gas Detectors.
- Updating and monitoring CMMS (Central Management Maintenance System) planned maintenance SYSTEM.
- Calibrate Pressure, Level and Flow Transmitter.
- Troubleshooting Deck Boiler, Engine room Boiler unable to start on gas or diesel fuel.
- Carry out monthly inventory on spare part.
- Troubleshooting on Gas Compressor (Solar Mars) due to fail start up.
- Troubleshooting on Turbine Generator (Solar Centaur) unable to start on gas or diesel fuel.
- Involved and troubleshoot crude metering and Gas metering skid due to giving fault indication.
- Perform the calibration and loop test for all field instrument such as Transmitter (pressure, flow, temperature and level).
- Perform the calibration and loop test for all field instrument such as (Samson, Fisher, Foxboro) and Switches.



Scope of Work	: ELECTRICAL AND INSTRUMENT SPECIALIST (PERMANENT STAFF) - Unlimited to the maintenance and troubleshooting of Instrument Process Control, Process Measurement, Wellhead Control Panel, Control Loops, Fire and Gas, DCS and PLC control system, ESD system, HVAC system, Deluge and fire water pump system, PA/Gai- Tronics Systems. -Electrical Power Generation and Distribution (Turbine Generators and standby / Emergency Generator set), High and low voltage Switchgear, Motor and Starter system, Battery and UPS systems, Lighting, and Quarters equipment. Protective Relays Testing and Calibration. -Turbo machinery /Rotating equipment such as Generator set, Compressor set. Experience working on PM, engine change-out, generator rotor and stator changeout and cleaning. -Involve with troubleshooting on electrical and control system for Rolls Royce (Entronics) – RB211 Engine, Allison (Allen Bradley) -Responsible in maintaining / troubleshoot custody gas & condensate metering for Lawit & Bintang. -Perform Troubleshooting, Critical Device Function Testing (CDFT) and PM calibration as per schedule. -Member of Platform Damage Control Team, Audit and service on Fire Safety equipment, participated in Platform Safety Program and other safety related initiatives and activities. -Conducting Platform Simulated Fire Drills and Safety Meetings -Maintenance on crane such Air conditioning system at cabin crane and assist mechanical jobs as required.
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Scope of Work	: ELECTRICAL AND INSTRUMENT TECHNICIAN <u>Electrical Work Scope</u> -Installation of single and three phase electrical motors -Control panel wiring -Maintenance and troubleshooting of AC and DC motors -Lighting system of the plants -Electrical panel wiring -Transformer maintenance -Air conditioning system maintenance <u>Instrument Calibration</u> -Calibration transmitter, switches, valves and field instrument -Troubleshooting the DCS (Distributed Control System) & SDS (Shutdown System) -Level Switch Sensors -Pressure Transmitter -Flow Transmitter
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	<ul style="list-style-type: none"> -Level Transmitter -Micro Pilot Transmitter -Control Valve -Temperature Transmitter and Sensors -Shut-off Valves -Pressure Switch -Analyzer H2S and Oxygen -Analyzer dehydrated Gas Dew point -Analyzer Air Dryer Dew point
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PERWAJA STEEL SDN BHD

1997-2001

Scope of Work	<p>: ELECTRICAL AND INSTRUMENT SUPERVISOR (PERMANENT STAFF)</p> <p><u>Electrical Jobs</u></p> <ul style="list-style-type: none"> -Installation of single and three phase electrical motors -Control panels wiring -Maintenance and troubleshooting of AC and DC motors -Lighting system of the plants -Electrical panel wiring -Transformer maintenance -Maintenance of speed switch, rope switch and belt switch -Ground fault detection -Adjustment for motorized valves and switches <p><u>Instrument Calibration</u></p> <ul style="list-style-type: none"> -Electronics Transmitter(Smart Transmitter) -Pneumatic Transmitter -Level Switch Sensors -Pressure Transmitter -Flow Transmitter -Level Transmitter -Ultrasonic Level Transmitter -Control Valve -Analyzer -Temperature Transmitter and Sensors -Shut-off Valves -Pressure Safety valves -Pressure Switch -Recorders
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References

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