

**23/02/2023**

## **MODIFICATION AND INSTALLATION OF A NEW SUPPLIED CUMMINS QSM11 USING OLD PARTS**

### **SCOPE:**

- ❖ **Convert new supplied gen set to from industrial (mechanical) to marine (electronics)**
- ❖ Disconnect starting panel and other connections
- ❖ Remove mechanical injectors and install electrically operated injectors.
- ❖ Open the valve plate cover and install sea water cooling pump driving gear.
- ❖ Replace fuel transfer pump.
- ❖ Remove dry exhaust manifold and install water cold exhausted manifold.
- ❖ Change deep oil sump and install old one.
- ❖ Install ECM and connect an electrical system
- ❖ Monitor and ensure safe lifting operation to avoid damage of engine component.
- ❖ Connect all dismantled parts from the new engine and couple engine to the alternator.
- ❖ Alignment of engine to the alternator.
- ❖ Connect all auxiliaries, fuel, sea water cooling and fresh water cooling systems.
- ❖ Connect all electrical system for monitoring and power supply to main switchboard.

- ❖ Configure engine ECM to main switchboard.
- ❖ Ensure all parameters are in line with manufacturer's specification.

**N/B: 70% of the Labour Charge should be paid for Mobilization.**

**LABOUR FOR THE ABOVE JOB = ₦1,500,000.00**

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**Gideon Etuk**

**ACCOUNT DETAILS:**

**ACCT. NO.: 6032813100**

**ACCT. NAME: GIDEON ETUK**

**BANK: KEYSTONE**