

S. MUHAMMED MAHADHIR

Generator Maintenance And Service Lead Technician – Electrical & Electronics Engineering
Qatar | +974 3021 1921 | mahadhir2122@gmail.com

PROFILE SUMMARY

Generator Maintenance And Service Lead Technician with 3 years and 10 month of hands-on experience in operation, maintenance, testing, and commissioning of MV & LV diesel generator power plants at Hamad International Airport (HIA), Qatar. Strong expertise in Caterpillar, RollsRoyce MTU, Mitsubishi, Cummins and Volvo Penta, power plant load management, and critical facility operations. Experienced in preventive & corrective maintenance, synchronization, and safety compliance.

KEY SKILLS

MV & LV Generators, Synchronization, Load Sharing, AVR, Preventive & Corrective Maintenance, Air Compressors, UPS, VFD, Electrical & Mechanical Troubleshooting.

PROFESSIONAL EXPERIENCE

Generator Maintenance And Service Lead Technician.

Linc Facility Services, Qatar

Client: Hamad International Airport (HIA)

March 2022 – Present

- Operate and maintain large-scale power plants and package facilities supplying critical airport loads.
- Perform startup, shutdown, synchronization, and load sharing of MV & LV generators.
- Carry out preventive and corrective maintenance of diesel generators, air compressors (30 bar), and pumps.
- Conduct alternator testing, including Insulation Resistance (IR) tests.
- Maintain and troubleshoot starting air, fuel, cooling, lubrication, and air intake systems.
- Work with AVR, governors and electrical protection schemes.
- Participate in testing & commissioning of generators and fuel systems in RTBF, CBF, and WUZ facilities.
- Maintain PM, CM, and FLS records for QCDD compliance.
- Perform load management analysis to optimize power plant efficiency.
- Authorized LOA personnel approved by Hamad International Airport.

MAJOR PLANTS & FACILITIES HANDLED

Power Plants – HIA

- Plant-1: 41.5 MW / 6.6 kV – Caterpillar 3616
- Plant-2: 51.3 MW / 6.6 kV – Caterpillar 3616
- Plant-3: 25.9 MW / 6.6 kV – Caterpillar 3616
- Plant-4: 30.0 MW / 11 kV – Caterpillar 3616

Package Facilities

- Facility-1: 7.5 MW / 11 kV – Rolls-Royce MTU
- Facility-2: 8.4 MW / 11 kV – Rolls-Royce MTU
- Facility-3: 4.0 MW / 415 V – Mitsubishi & Volvo Penta

WWTP

- 5.6 MW / 415 V – Caterpillar 3516

ACHIEVEMENTS

- Energy consumption analysis and load optimization for power plants.
- Noise and emission control studies for diesel generator plants.
- Troubleshooting and overhauling for back pressure and performance issues.
- Environmental impact and compliance analysis for generator operations.

EDUCATION

B.E. Electrical and Electronics Engineering

Syed Ammal Engineering College | CGPA: 7.56

CERTIFICATIONS

- COSHH Coordinator – RICE International
- Airside Safety Training
- MTU Engine O&M Training

SOFTWARE & TOOLS

- Diagnostic Software (iSmart)
- MATLAB
- PCB Design Tools

LANGUAGES

English, Tamil, Malayalam, Hindi.



DECLARATION

I hereby declare that the information provided is true and correct to the best of my knowledge.

