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Flat No# 2A, House# 1/3,
Road# 9, Priyanka Runway City,
Uttara, Dhaka-1230

MD.SAFWAN

TESTING & QC ENGINEER

PROFESSIONAL SUMMARY:

Results-driven Electrical Engineer with over 9 years of specialized experience in quality control and testing of power transformers and associated equipment. Proven track record in overseeing quality control processes and performing thorough testing on Power Transformers, BBT, CT-PT, LV Switchgear and MV Switchgear. Proficient in performing routine, type, and special tests in full compliance with IEC and ANSI standards, ensuring the highest levels of performance and reliability. In addition to factory-based testing, experienced in site testing and commissioning of electrical substation equipment, including oil-immersed and dry-type transformers, and LV/MV switchgear such as AIS and GIS.

AREA OF EXPERTISE

- Testing
- QA/QC
- Manufacturing
- Technical Support
- Commissioning

AWARDS

- Annul Award for Improving Power Transformer and Cast Resin Transformer Quality Control Process (2022)
- Annul Award for Technical improvement(2017)

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Arabic (Basics)
- Bangla (Native)

SOFT SKILLS

- MS Office Suite
- Adobe Illustrator
- MS Project
- AutoCAD

MEMBERSHIP/LICENSE

- IEB Membership (M-41966)
- Electrical Supervisor License (Category: ABC, L. No: S20220010059)

WORK EXPERIENCE

Experience: 01

Testing & QC Engineer (Deputy Manager) — 2019 - PRESENT
ADEX ENGINEERING LTD.

My Key responsibilities include:

- Ensure the highest standards of quality throughout the power transformer production process, from in-process monitoring to final inspection, including inspections of incoming goods.
- Lead and perform routine, type, and special tests on oil-cooled and dry-type transformers in compliance with IEC/ANSI standards.
- Prepare detailed test reports and maintain accurate records of all testing activities, including process checks, conformity and non-conformity findings, and fault records in the company portal.
- Conduct root cause analysis and resolve quality issues using established quality tools and methodologies.
- Guide and mentor teams, promoting effective collaboration and ensuring adherence to quality and safety standards.
- Implement health and safety measures to maintain a secure and hazard-free workplace
- Collaborate with R&D and design teams to drive continuous product improvement and innovation.
- Ensure the proper calibration of laboratory equipment to guarantee the precision and reliability of test results.

Contribution and Achievement:

- Enhanced the Quality Control plan by refining documentation practices, leading to increased efficiency and precision.
- Successfully implemented the 5S methodology, resulting in enhanced organization and operational efficiency
- Reduced transformer fault ratio by 10% through rigorous adherence to in-process QAP and technical drawings.

TRAINING

- Quality Assurance and implementation of 5S in plant
- Lean Manufacturing, Six Sigma
- ISO, IEC, RSC, ACCORD, ALLIANCE
- Oil Cooled and Cast Resin Transformer Production Process

ACADEMIC QUALIFICATION

- Bachelor of Science (BSc) in EEE
  Passing Year: 2015
  Institute: Ahsanullah University of Science and Technology (AUST)

- Higher Secondary Certificate (HSC)
  Passing Year: 2010
  G.P.A: 5.0 out of 5.0
  Awarded Government Talent Pool Scholarship;
  Secured 4th Merit Position

- Secondary School Certificate (SSC)
  Passing Year: 2008
  G.P.A: 5.0 out of 5.0

PERSONAL DETAILS

Father's Name:	Dr. Motiul Islam
Mother's Name:	Kaneta Begum
Date of birth:	10 December, 1993
Nationality:	Bangladeshi
Marital status:	Married

REFFRENCES

- Reference-1:
  Engr. Moshahed Ali Khan
  Director (Technical),
  Adex Engineering Ltd.
  Mob: +88-01713164503

- Reference-2:
  Shafiqur Rahman
  Chief Group Commercial (CGC)
  Adex Engineering Ltd.
  Mob: +88-01713005101

Experience: 02

Site Testing & Commissioning Engineer **2015 - 2018**

ADEX ENGINEERING LTD.

As a Site Testing & Commissioning Engineer, my key responsibilities include:

- Overseeing the installation of transformers, including oil-cooled transformers up to 132kV and dry-type transformers up to the 33kV voltage class.
- Supervising the installation, testing, and commissioning of various types of LV and MV switchgear, including AIS, GIS, PFI panels, MCC panels, and control panels.
- Performing site acceptance tests (SAT) and routine testing of power transformers, including insulation resistance (IR), transformer turns ratio (TTR), winding resistance, vector group, and oil dielectric strength testing.
- Diagnosing transformer faults through testing and inspection, and coordinating with the OEM or factory for analysis and repair procedures.
- Ensuring compliance with electrical standards and safety regulations (e.g., IEC, IEEE) during installation and testing phases.
- Coordinating with project stakeholders including consultants, contractors, and clients to ensure timely project execution.
- Performing pre-commissioning checks, energization procedures, and load testing of substation equipment.
- Preparing detailed reports and documentation of test results, installation checklists, and fault analysis for client and project records.

KEY PRODUCT KNOWLEDGE

Generator, Transformer, Switchgear (0.415kV, 11KV, 33kV,132kV), AIS, GIS, ABS, ACR, RMU, Isolator, LBS, VCB, ACB, MCCB, MCB, RCD, LA, PFI, BBT, CT-PT, ATS, DB, SDB, DOL Starter, Soft Starter, VFD, Synchronizing, Solar, BMS, Factory Automation, Substation Automation (SAS), PLC, SCADA, Electrical Load Calculation, SLD, etc.

I hereby declare that the above written particulars are true to the best my knowledge and belief; I bear the responsibility for the correctness of the above-mentioned information.

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Signature