

JOYANTA DEB GUPTA, B.Sc. (EEE)

Senior Electrical Design & Project Engineer
Substation Specialist | Compliance & Audit Leader

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PROFESSIONAL SUMMARY

Accomplished Electrical Design & Project Engineer with 9.5+ years of end-to-end expertise in medium-voltage (33kV) to low-voltage (LV) electrical infrastructure. My experience spans utility-scale substations, industrial power systems, and compliance-driven factory electrification across Bangladesh, with a proven track record in leading 50+ high-stakes projects—from tendering and detailed design to erection, testing, and commissioning. Ensured 100% adherence to BNBC, NFPA, NESCO, DESCO, and all major buyer standards (RSC, Nirapon, Elevate, DIFE, Walmart, Bureau Veritas, Accord, Alliance).

Recognized for technical leadership, zero-incident safety performance, and on-time delivery of mission-critical assets including 33/11kV substations and 16–28 MVA power transformers. Trusted by NESCO, DESCO, ACI, Epic Group, and the Bangladesh National Parliament.

CORE COMPETENCIES

Electrical Design & Engineering	Project & Commercial management	Compliance & Standards
33/11kV AIS & GIS Substation Design	End-to-End Project Lifecycle (Tender → Handover)	BNBC 2020 & NFPA 70/72/780
Single-Line Diagrams (SLD)	BOQ Preparation & Cost Estimation	NESCO, DESCO, REB Technical Specifications
Electrical Layout Diagrams (ELD)	Tender Participation (EGP, OSTEM, etc.)	RSC, Nirapon, Elevate, DIFE Audits
General Arrangement (GA) Drawings	Vendor Sourcing & Procurement	Walmart, Bureau Veritas, Accord, Alliance
Earthing System & Lightning Protection (LPS)	Subcontractor & Team Leadership	EHS Plan Development & Implementation
Busbar Trunking (BBT) Systems	Client Requirement Analysis & Reporting	Fire & Electrical Safety Integration
Power System Calculations & Load Flow	Technical Documentation & Presentations	Zero Lost-Time Incident Record

PROFESSIONAL EXPERIENCE

Assistant Manager – Electrical Design & Projects

Novelty Infrastructures Limited | Dhaka, Bangladesh | Nov 2019 – Present
(Promoted from Site Manager (2019–2020) to Assistant Manager (2020–Present))

Full ownership of electrical design and project execution for MV/LV systems across utility and industrial sectors.

Key Responsibilities & Achievements:

- Led end-to-end delivery of 5 NESCO 33/11kV AIS substations, managing design, procurement, erection, testing, and commissioning—100% on schedule and within budget.
- Installed, tested, and commissioned:
 - 10 units of 16/20 MVA Power Transformers
 - 23 units of 33kV Outdoor VCBs
 - 90 units of 11kV Indoor AIS Panels
- Authored 100+ technical deliverables: SLDs, ELDs, GA Drawings, BOQs, Compliance Reports—accelerating tender wins and client approvals.
- Delivered electrical designs for 50+ industrial clients, including: ACI Pharmaceuticals, Epic Group (EGMCL-1/2, GTL-1/2/3/4, PGCL), Ananta Denim, Matin Spinning, Arefin Textile Mills, Pearl Garments, Worldye Apparels, Karnaphuli Shoes, Xing Chang, Super Oil Refinery, Mas Intimates (Unit 1&2), GAB Bangladesh, Unigarden, LCB International, NATco Global Packaging etc.
- Designed fire detection, and LPS systems per NFPA & BNBC, enabling successful audits by Walmart, RSC, Elevate, Nirapon, DIFE, Bureau Veritas.
- Developed and enforced site-specific EHS plans, achieving zero safety incidents across all active projects.

Site Engineer – Projects

Siemens Bangladesh Limited | Dhaka, Bangladesh | Sep 2017 – Oct 2019

On-site supervision of DESCO's flagship GIS substation projects.

Key Responsibilities & Achievements:

- Supervised all electrical works for 24 DESCO 33/11kV GIS substations—among Bangladesh's most technically advanced utility projects.
- Commissioned:
 - 19 units of 20/28 MVA Power Transformers (Tesla India)
 - 45 units of Siemens 8DB10 33kV GIS Panels (including SF6 gas handling, bus coupling, control wiring, cable termination)
 - 96 units of NXAIR SION 11kV AIS Panels

- Led the National Parliament 11kV GIS Project: Commissioned 22 units of Siemens NXPLUS C 11kV GIS Panels—a high-visibility, technically complex assignment requiring advanced troubleshooting.
- Ensured 100% compliance with Siemens global standards for erection, termination, and testing—zero rework across all sites.
- Maintained flawless EHS compliance across 24 high-risk sites with zero lost-time incidents.

Junior Engineer – Projects

Novelty Engineering Corporation | Dhaka, Bangladesh | Jan 2016 – Aug 2017

Electrical rectification and audit-readiness for export-oriented garment factories.

Key Responsibilities & Achievements:

- Executed electrical rectification for 15+ factories, including:
Square Denim (Mymensingh), Xin Chang Shoes (CTG), Regency Garments (CTG), Worldye Apparels (CTG), LCB International (CTG), NATco Global Packaging (Dhaka), Univogue, Prime Jeans, A&B Outwear, Farkantex, G.H. Haewae
- Prepared SLDs & ELDs in AutoCAD and conducted electrical safety testing & reporting.
- Enabled successful compliance audits by Accord, Alliance, Bureau Veritas—critical for factory export eligibility.
- Gained hands-on experience in LV substation installation and commissioning.

EDUCATION

- **B.Sc. in Electrical & Electronics Engineering**
Uttara University, Dhaka | 2020 | GPA: 3.19/4.00
- **Diploma in Engineering (Power Technology)**
Mymensingh Polytechnic Institute | 2015 | GPA: 3.05/4.00
- **Higher Secondary Certificate (Business Studies)**
Government Bangla College, Dhaka | 2010 | GPA: 3.60/5.00
- **Secondary School Certificate (Business Studies)**
Chiriakhana Botanical High School, Dhaka | 2008 | GPA: 4.38/5.00

CERTIFICATIONS & TRAINING

- AutoCAD Electrical Design (30-Day Webinar) – Gobeshona Learning Academy | 2025
- Programmable Logic Controller (PLC) Fundamentals (30-Day Webinar) – Gobeshona Learning Academy | 2025
- VAT & Tax Management (Basic to Advanced) – LCBS Dhaka | 2025

- SITRUST (Occupational Safety Certification) – Siemens Bangladesh | 2019
- Internship: Automotive Electrical Systems – ECM Auto Center Ltd., Dhaka | 2014

TECHNICAL SKILLS

- Design & Drafting: AutoCAD (SLD, ELD, GA), Electrical Load & Short-Circuit Calculations
- Standards & Compliance: BNBC 2020, NFPA 70/72/780, NESCO/DESCO/REB Specs, IEC (basic)
- Software: MS Excel (BOQ, Costing), PowerPoint (Client Reports), Outlook, Photoshop (Technical Visuals)
- Operating Systems: Windows 7/8/10/11
- Languages: Bengali (Native), English (Professional Written & Spoken), Hindi (Conversational)

PROFESSIONAL REFERENCES

1. Prashanta Kumar Roy
Executive Engineer, NESCO S&D Division, Lalmonirhat
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2. Md. Sadikujjaman
Executive Engineer, REB, Faridpur Division
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3. Mithu Kumar Bhowmik
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4. Emtiaz Ahammad
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