SCOPE OF WORK
Electrical Works G-Store 2 + Expansion Facility
Complete Electrical Installation and Testing

1. PROJECT OVERVIEW

1.1 Project Description

The Contractor shall provide all labor, equipment, and services necessary for the complete electrical installation, including lighting systems, power distribution, cables, conduits, and all associated components at the G-Store 2 facility as specified in the referenced drawings.

1.2 Contract Documents

Electrical Drawings:

1. GC-E-01
2. Grounding Layout
3. Lighting Layout
4. Outlet Layout
5. Electrical Schematic
6. Panel Details
7. Grounding Schematic
8. Emergency, Exit Light, and Trunking Layout

2. SCOPE OF WORK

2.1 Electrical Installation

- Install complete electrical lighting systems as per design drawings
- Install power distribution panels and electrical panels
- Install all electrical cables, conduits, and raceways
- Install electrical receptacles, switches, and fixtures
- Install junction boxes and electrical components as specified
- Connect all electrical equipment per the manufacturer's specifications
- Review the design drawings and BOQ list

2.2 Power Distribution Systems

- Install main distribution panels and sub-panels
- Install circuit breakers and protective devices
- Connect feeders and branch circuits
- Install grounding and bonding systems with local codes and design drawings

2.3 Control and Communication Systems

- Install control wiring for electrical equipment
- Install emergency lighting and exit signs where required

2.4 System Labeling and Identification

- Label all electrical system components, including receptacles, junction boxes, and panels
- Create and install breaker panel schedules with clear group identification
- Install circuit directories in all distribution panels
- Provide permanent labeling per local code requirements

3. MATERIALS

3.1 Client Supplied Materials

The following materials will be provided by the Client at no cost to the Contractor:

List of items detailed in the BOQ (attached)

Note: Contractor is responsible for proper handling, storage, and installation of all client-supplied materials. Any damage or loss of client materials will be at the Contractor's expense.

4. CONTRACTOR REQUIREMENTS

4.1 Personnel and Equipment

- Provide licensed electricians for all electrical work
- Ensure an adequately skilled workforce for timely completion
- Supply all necessary electrical tools and testing equipment
- Provide scaffolding, ladders, and access equipment as needed
- Maintain current electrical contractor license and permits

4.2 Safety Requirements

- Provide and enforce the use of appropriate electrical PPE
- Implement lockout/tagout procedures for electrical safety
- Submit Job Safety Analysis for electrical work activities
- Conduct daily safety briefings with electrical crews
- Comply with all company QHSSE policies and electrical safety standards
- Coordinate with the Project Management Team for safe operations

4.3 Insurance and Documentation

- Electrical Contractor's License and Insurance
- Provide calibration certificates for all testing equipment
- Submit a detailed project schedule within 5 days of the award
- Maintain daily progress and quality reports

5. TESTING AND COMMISSIONING

5.1 Required Testing

The Contractor shall conduct comprehensive testing to ensure functionality, safety, and compliance with Guyana's local electrical standards:

Cable Insulation Testing:

- Test all installed cables for insulation resistance levels
- Minimum acceptable resistance per local code requirements
- Document all test results with date, time, and conditions

Conductivity Testing:

- Verify proper current flow and electrical connections
- Test the integrity of all terminations and conductors
- Perform continuity testing on all circuits

Grounding System Testing:

- Measure ground resistance levels for compliance
- Test bonding connections and equipment grounding
- Verify ground fault protection systems

5.2 System Commissioning

- Functional testing of all lighting systems
- Load testing of distribution panels and circuits
- Testing of emergency lighting systems
- Verification of the proper operation of all equipment installed

6. PROJECT EXECUTION

6.1 Schedule and Coordination

- Complete work within 24 working days
- Coordinate daily activities with the Project Management Team
- Participate in weekly progress meetings

6.2 Code Compliance and Inspections

- Ensure all work complies with local electrical codes
- Coordinate required inspections with the quality department
- Obtain approval for any design changes before implementation
- Correct any deficiencies identified during inspections

7. DELIVERABLES

7.1 Project Documentation

- Project schedule in MS Project and PDF formats
- Provide a list of equipment required from the client (excepting that which is detailed in the BOQ)
- Detailed as-built drawings in PDF and CAD formats reflecting all changes
- Complete test reports including insulation resistance, conductivity, and grounding results
- Calibration certificates for all testing equipment used
- Cable log documenting type, length, and installation details of all cables

7.2 Operations Documentation

- Panel schedules and circuit directories
- Warranty documentation for the electrical system
- Emergency contact information for electrical service

8. QUALITY CONTROL

8.1 Installation Standards

- All work must comply with the National Electrical Code (NEC) or local equivalent
- Follow the manufacturer's installation requirements
- Maintain proper clearances and installation practices
- Use only approved electrical materials and components

8.2 Inspection Requirements

- Pre-installation meeting with all stakeholders
- Rough-in electrical inspection before covering
- Final electrical inspection before energizing
- Testing and commissioning inspection

9. COMPLIANCE

9.1 Standards Compliance

- National Electrical Code (NEC) or local electrical code
- Local electrical authority requirements
- OSHA electrical safety standards
- Company QHSSE policies and procedures
- Equipment manufacturer specifications

10. APPROVAL AND ACCEPTANCE

10.1 Change Management

Obtain client approval for any changes to the design or scope before implementation.

10.2 Final Acceptance

- Final approval given after completion of installation work
- Successful completion of all required testing
- Submission and approval of all deliverables
- Resolution of any punch list items
- Obtaining final electrical inspection approval