

GYSBI PMO

# SCOPE OF WORK DOCUMENT

**BUSINESS UNIT:** AES PROJECTS

**SITE / ASSET:** GYSBI INDUSTRIAL ESTATE (GIE)

**PROJECT TITLE:** GIE GPL POWER CONNECTION

**PROJECT NO:** GY01-0014

**DOCUMENT NO:** GY01-0014-EN-SOW-001-01  
**REVISION:** C1

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## REVISION / ISSUE TABLE:

REV	DATE	DESCRIPTION	INITIATED	REVIEWED	APPROVED
A1	FEB 2026	ISSUED FOR INTERNAL REVIEW & COMMENT	SJL	GP	NN
C1	28/02/2026	APPROVED FOR CONSTRUCTION	SJL	GP	NN

## REVISION HISTORY:

REVISION	SUMMARY OF CHANGES MADE	SECTIONS AFFECTED
A1	N/A – FIRST ISSUE	N/A
C1	N.A – NO CHANGE	N/A

## TABLE OF ACRONYMS & ABBREVIATIONS:

ACRONYM	DEFINITION
ATS	Automatic Transfer Switch
DLP	Defects Liability Period
EPC	Engineering, Procurement & Construction
GCT	GYSBI City
GPL	Guyana Power and Light
GYSBI	Guyana Shore Base Inc.
HV	High Voltage
IFC	Issued For Construction
IEC	International Electrotechnical Commission
ITT	Invitation to Tender
LV	Low Voltage
O&M	Operation and Maintenance
PMO	Project Management Office
SIMOPS	Simultaneous Operations
SLD	Single Line Diagram
SOW	Scope of Work

# 1 PURPOSE

GYSBI intends to transition the GIE site from temporary generator-dependent power arrangements to a permanent grid-connected electrical supply provided by Guyana Power and Light (GPL).

This Scope of Work defines the requirements for the appointment of a single Contractor to deliver the complete main grid connection and transformer integration under a turnkey Engineering, Procurement & Construction (EPC) arrangement.

The Contractor shall assume full responsibility for delivering a compliant, energized, fully operational incoming power system suitable for long-term industrial use.

## 1.5 Reference Documents

The following documents form part of the Tender Package and shall be read in conjunction with this Scope of Work.

In the event of conflict, the order of precedence shall be defined in the Invitation to Tender (ITT).

REF	DOCUMENT TITLE	DOCUMENT NUMBER	OWNER
R-01	INVITATION TO TENDER (ITT)	GY01-0014-CM-ITT-001-01	GYSBI
R-02	SCOPE OF WORK (SOW) – THIS DOCUMENT	GY01-0014-EN-SOW-001-01	GYSBI
R-03	TENDER CLARIFICATIONS LOG	GY01-0014-CM-LOG-001-01	GYSBI
R-04	CONTRACTOR PROPOSAL / SUBMITTAL FORM	GY01-0014-CM-SUB-001-01	GYSBI
R-05	TENDER EVALUATION CRITERIA & METHODOLOGY	GY01-0014-CM-EVA-001-01	GYSBI

## 2 PROJECT OVERVIEW

The Works comprise the installation and integration of the main incoming grid connection, the specification, procurement, siting, installation and commissioning of two (2) transformer at the GIE site.

This Scope is limited to the main incoming infrastructure only. Downstream electrical distribution beyond the main incoming board is excluded.

The Works shall be delivered under a single point of responsibility.

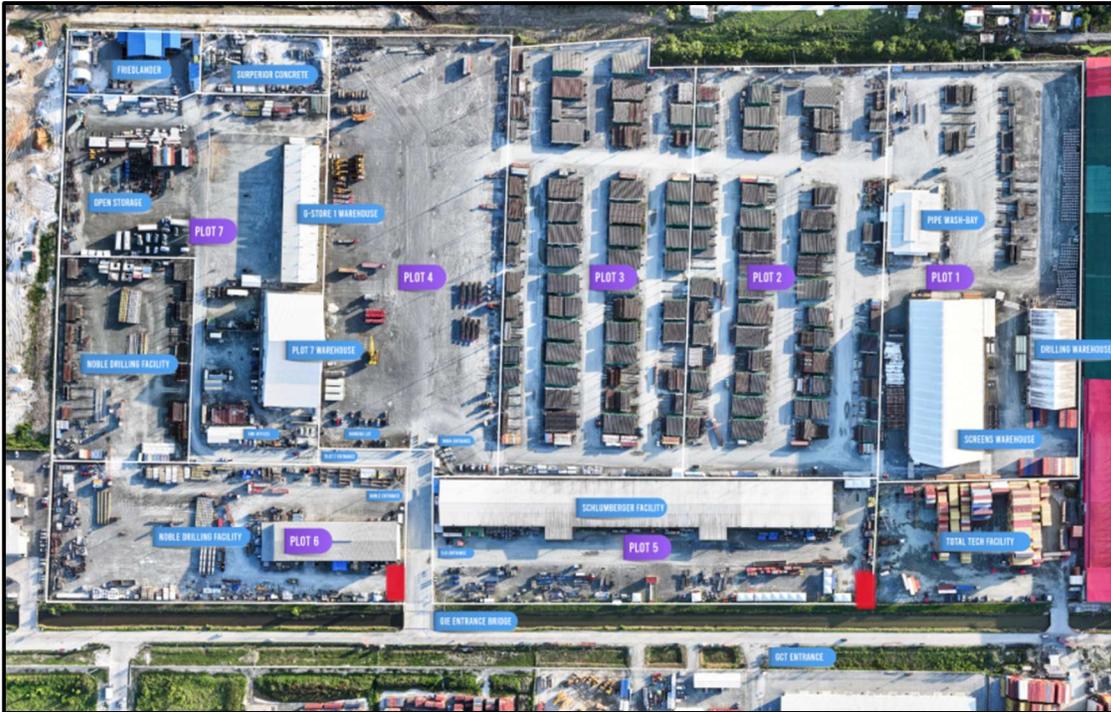
### 2.2 Site Location & Context

The Works shall be executed within the GIE (GYSBI Industrial Estate) site footprint. The site is:

- Actively operational
- Utilized by multiple third-party contractors
- Subject to heavy vehicle movement
- Exposed to tropical rainfall and high humidity conditions

Minor SIMOPS conditions exist; however, no major shutdowns are anticipated.

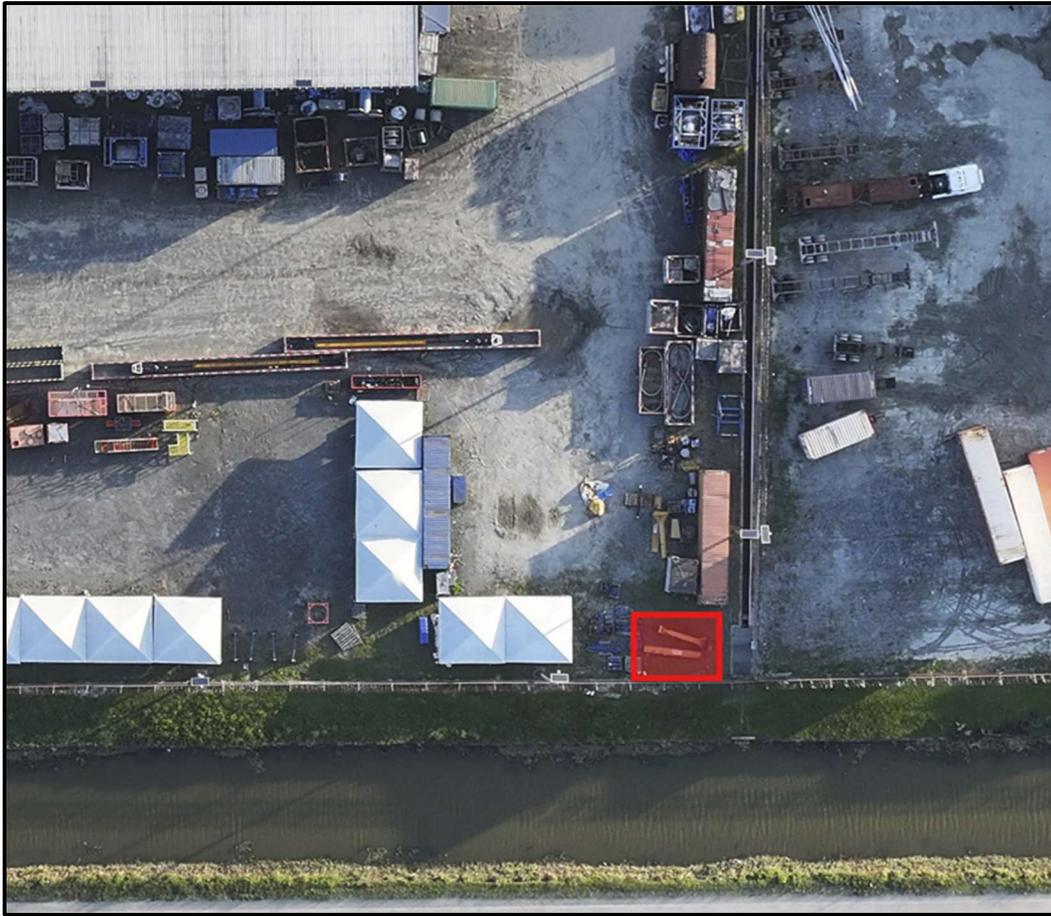
The Contractor shall familiarize themselves with site conditions prior to submission of their proposal and plan works to minimize operational disruption.



**FIG 1: Aerial Overview of GIE & Sub Plot Locations  
(Proposed Transformer Locations – shown in red)**



**Proposed Transformer Location No 1  
(North of Noble Site)**



**Proposed Transformer Location No 2  
(West Boundary of SLB Site)**

### 3 SCOPE OF WORK

The Contractor shall deliver a complete and fully operational main power connection system including:

- Coordination with GPL for permanent grid connection
- Installation and integration of the transformers
- Incoming HV/LV infrastructure
- Main switchgear and protection systems
- Transformer base civil works
- Earthing and lightning protection
- Automatic Transfer Switch (ATS) integration
- Testing, energisation, and commissioning

### 4 ENGINEERING & DESIGN DELIVERABLES

The Contractor shall prepare, submit, and obtain approval for all engineering documentation necessary to demonstrate technical compliance and constructability.

As a minimum, the following deliverables shall be submitted:

#### 4.1 Design Deliverables

- Concept Engineering & Design Package
- Electrical Load Validation
- Protection Coordination Study
- Cable Sizing & Routing Drawings
- Earthing & Lightning Protection Design
- Single Line Diagrams (SLDs)
- Transformer capacity & Installation Details
- Switchgear Layout Drawings
- Issued-for-Construction (IFC) Drawings

No construction shall commence until IFC drawings are approved.

Approval by GYSBI does not transfer design responsibility.

#### 4.2 Procurement and Installation

Contractor to source, procure supply and install all materials related to this project.

## 5 TESTING, COMMISSIONING & ACCEPTANCE

The Contractor shall perform all testing necessary to demonstrate safe and compliant operation prior to handover.

### 5.1 Pre-Commissioning

Prior to energisation, the Contractor shall:

- Complete installation works
- Rectify all identified defects
- Submit testing procedures
- Confirm system readiness

No system shall be energised without prior approval.

### 5.2 Commissioning Requirements

The Contractor shall perform and document:

- Insulation resistance testing
- Protection relay testing
- Functional switchgear testing
- ATS operational testing
- Grid-to-generator transfer testing
- Full load testing
- Successful energisation by GPL

All testing shall be witnessed by GYSBI where required.

Failure to meet performance requirements shall require corrective action and re-testing at Contractor's cost.

## 6 HANDOVER REQUIREMENTS

Final Acceptance shall only be granted upon successful completion of commissioning and submission of a complete Handover Dossier.

The Handover Dossier shall include:

- Approved As-Built Drawings
- Operation & Maintenance Manuals
- Test & Commissioning Reports
- Warranty Certificates
- Asset Register
- Spare Parts List (if applicable)
- Training Records

A twelve (12) month Defects Liability Period shall commence from Final Acceptance.

## 7 REPORTING & PROGRESS MANAGEMENT

The Contractor shall provide structured reporting throughout execution.

Weekly Reporting:

- Activities completed
- Planned activities
- Key risks
- Safety observations
- Site photographs

Monthly Reporting:

- Updated schedule
- Engineering status
- Procurement status
- GPL approval status
- Risk register update

The Contractor shall immediately notify GYSBI of any issue affecting energisation timeline.

## 8 DESIGN & PERFORMANCE REQUIREMENTS

The installed infrastructure shall:

- Have a minimum 20-year design life
- Include surge and lightning protection
- Provide spare capacity for future expansion
- Comply with Guyana regulations and IEC standards
- Be permanent and industrial-grade

## 9 SCHEDULE

The anticipated duration is 3–6 months from Contract Award to full energisation.

A detailed logic-linked schedule shall be submitted within 14 days of award.

## 10 OUT OF SCOPE

- Downstream site distribution beyond main incoming board
- Major off-site GPL upgrades beyond connection point
- Long-term operations beyond DLP

### 11. PERSONNEL & COMPETENCY REQUIREMENTS

The Contractor shall assign suitably qualified and experienced personnel to execute the Works.

## 11 PROJECT MANAGER REQUIREMENT

The Contractor shall appoint a dedicated Project Manager who shall be based on site for the duration of critical installation and commissioning activities.

The appointed Project Manager shall:

- Have a minimum of fifteen (15) years demonstrable experience in managing electrical infrastructure projects of similar scale and complexity
- Have proven experience in grid connection, transformer installation, and industrial electrical systems
- Have prior experience coordinating with utility providers and managing energisation processes

- Be authorized to make binding technical and commercial decisions on behalf of the Contractor
- Be the single point of contact with GYSBI

The proposed Project Manager's CV shall be submitted as part of the Tender submission for review and approval.

GYSBI reserves the right to reject any proposed Project Manager who does not meet the minimum experience requirements.

Replacement of the approved Project Manager during execution shall require prior written approval from GYSBI.