

GYSBI PMO

SCOPE OF WORK DOCUMENT

BUSINESS UNIT: AES PROJECTS

SITE / ASSET: GYSBI SHOREBASE (GSB) & GYSBI
INDUSTRIAL ESTATE (GIE)

PROJECT TITLE: PERIMETER FENCING REPLACEMENT

DOCUMENT NO: GY01-0025-EN-SOW-001-01
REVISION: A2

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REVISION / ISSUE TABLE:

REV	DATE	DESCRIPTION	INITIATED	REVIEWED	APPROVED
A1	June 2026	ISSUED FOR COMMENT	GCP		
A2	01/09/2026	RE-ISSUED FOR INFORMATION (DRAFT)	GCP		

REVISION HISTORY:

REVISION	SUMMARY OF CHANGES MADE	SECTIONS AFFECTED
A1	N/A – FIRST ISSUE	N/A
A2	Added approved alternative fence system basis; clarified that alternate systems must maintain or exceed the minimum security, corrosion, design-life, gate, anti-climb/anti-burrow and QA/QC requirements; added Appendix A fence type selection and budgetary cost comparison framework.	Sections 1, 6, 7, 16 and 17 / Appendix A

TABLE OF ACRONYMS & ABBREVIATIONS:

ACRONYM	DEFINITION
BOQ	Bill of Quantities
DLP	Defects Liability Period
EPC	Engineering, Procurement and Construction
GSB	GYSBI Shore Base
GIE	GYSBI Industrial Estate
GCT	GYSBI City
GYSBI	Guyana Shore Base Inc.
HSE	Health, Safety and Environment
HSAC	High Security, Anti-Climb
IFC	Issued for Construction
ITP	Inspection and Test Plan
ITT	Invitation to Tender
LPCB	Loss Prevention Certification Board
LPS	Loss Prevention Standard
MTR	Material Test Report
O&M	Operation and Maintenance
PMO	Project Management Office
PPC	Polyester Powder Coating
QA/QC	Quality Assurance / Quality Control
RAL	Reichs-Ausschuß für Lieferbedingungen colour standard
RHS/SHS	Rectangular Hollow Section / Square Hollow Section
SIMOPS	Simultaneous Operations
SOW	Scope of Work

1 PURPOSE

GYsBI is seeking to secure its operating perimeter by replacing deteriorated fencing and upgrading selected perimeter and internal security fence lines to a higher-performance, corrosion-resistant security fencing system.

This Scope of Work defines the minimum requirements for the appointment of a single Contractor to deliver the complete perimeter fencing replacement and upgrade under a turnkey Engineering, Procurement and Construction (EPC) arrangement.

The Contractor shall assume single-point responsibility for survey verification, design development, procurement, fabrication, delivery, removal of existing fencing, temporary security control, installation, testing, commissioning, handover and defect rectification unless specifically stated otherwise in this SOW or the ITT.

This SOW also permits consideration of approved alternative high-security fence systems where the proposed system demonstrably meets or exceeds the minimum security rating, corrosion protection, design life, gate compatibility, anti-climb/anti-burrow, installation quality and handover requirements defined herein. Fence type selection, value comparison and budgetary cost comparison shall be documented in Appendix A before final recommendation.

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 between documents, the order of precedence shall be defined in the Invitation to Tender (ITT). The Contractor shall immediately notify GYSBI of any discovered conflict, ambiguity or omission before proceeding with affected work.

REF	DOCUMENT TITLE	DOCUMENT NUMBER	OWNER
R-01	Invitation to Tender (ITT)	GY01-0025-CM-ITT-001-01	GYsBI
R-02	Scope of Work (SOW) - This Document	GY01-0025-EN-SOW-001-01	GYsBI
R-03	Tender Clarifications Log	GY01-0025-CM-LOG-001-01	GYsBI
R-04	Contractor Proposal / Submittal Form	GY01-0025-CM-SUB-001-01	GYsBI
R-05	Tender Evaluation Criteria and Methodology	GY01-0025-CM-EVA-001-01	GYsBI
R-06	Fence and Gate Location Drawings / Markups	Appendix A & B - Sketch	GYsBI
R-07	Existing Site Survey / Contractor Verification Records	To be developed	Contractor

2 PROJECT OVERVIEW

The Works comprise the removal of existing fence and replacement with perimeter and, where identified, internal HSAC fencing and associated gates. The replacement system shall be suitable for the hot, humid, high-salinity coastal environment of Guyana and resistant to deterioration caused by vegetation, corrosion, heavy vehicle activity, and normal port operations.

The Works shall be delivered under a single point of responsibility, with the Contractor coordinating all civil, security, electrical bonding, access-control interface, temporary works, QA/QC and handover activities required to achieve final acceptance.

Site Location & Context

The Works shall be executed within the GSB and GIE site footprints. The site is:

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

At no point shall the perimeter remain unsecured by a physical barrier. Posting guards along an area where the existing fence has been removed is not sufficient unless used in addition to an approved temporary physical barrier.

Vegetation clearing required to execute the Works shall be included in the Contractor scope and shall not constitute a change in condition unless the Contractor identifies and records an exceptional obstruction during the pre-bid or pre-construction survey.

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.

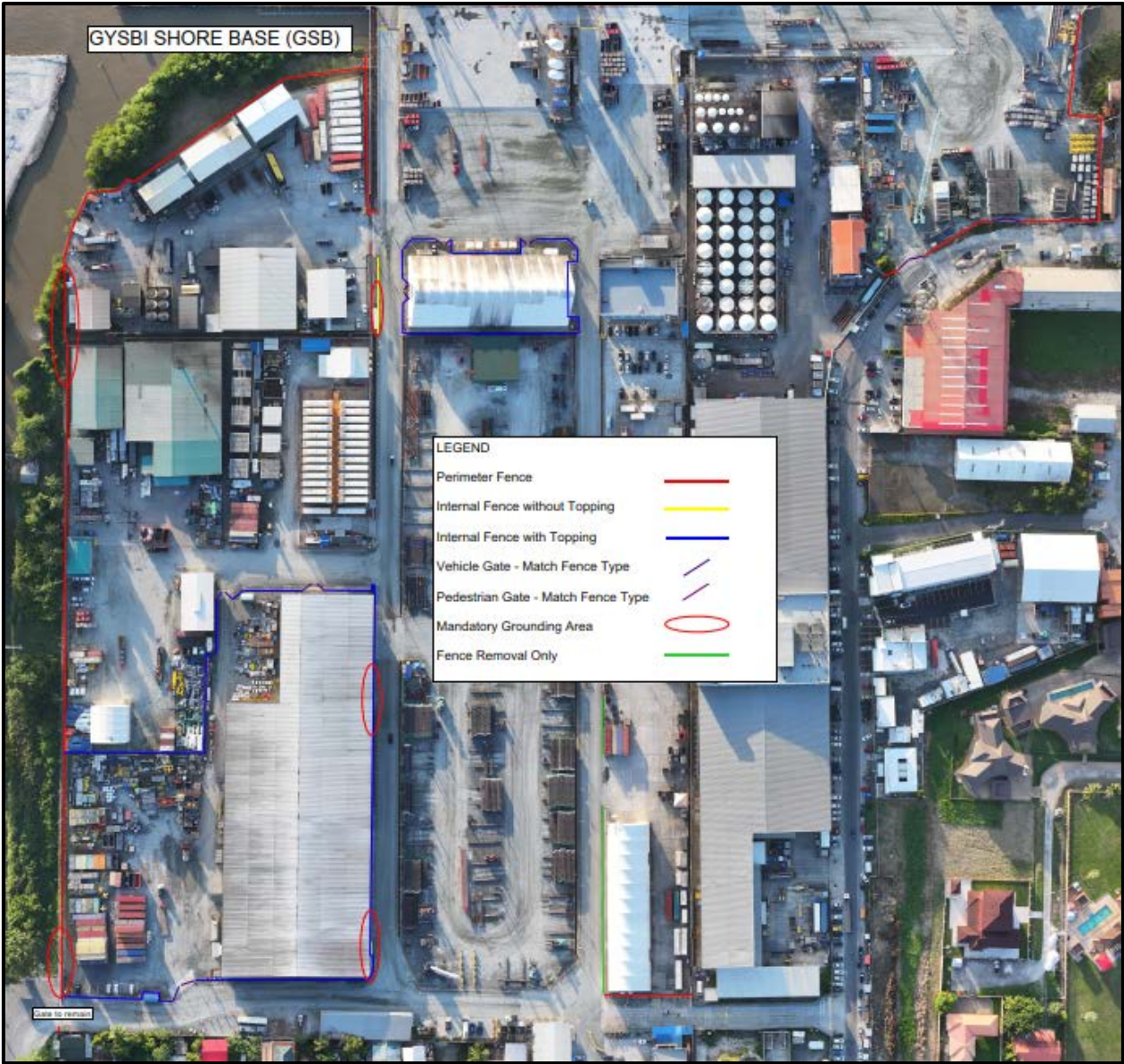


FIG 1: Aerial Overview of GSB Fence & Gate Locations

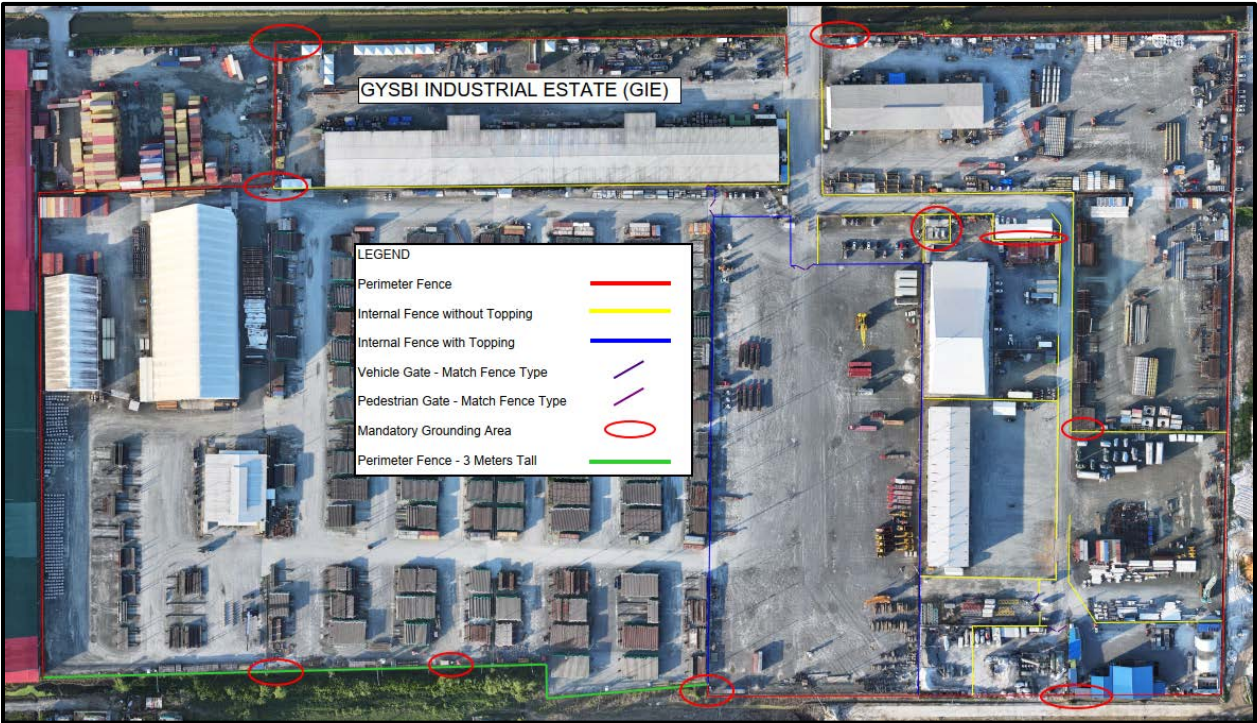


FIG 2: Aerial Overview of GIE Fence & Gate Locations

3 SCOPE SUMMARY AND WORK PACKAGES

The Contractor shall provide all labour, supervision, engineering, surveys, materials, equipment, temporary works, logistics, testing and documentation necessary to deliver a complete and compliant fencing system. The scope is organized into work packages to support tender pricing, execution planning and later quantity development.

WP	WORK PACKAGE	MINIMUM INCLUDED SCOPE	PRIMARY OUTPUT
WP-01	Survey and Verification	Verify fence alignment, gates, ground levels, drainage interfaces, existing services and constructability before fabrication.	Verified survey records and marked-up drawings
WP-02	Temporary Security and Sequencing	Maintain a continuous physical barrier while existing fencing is removed and new fencing is installed.	Approved sequence plan and temporary barrier plan
WP-03	Removal and Disposal	Remove existing fence, posts, foundations or obstructions as required and dispose of waste off site unless otherwise directed.	Cleared workfront and disposal records
WP-04	Civil Works and Foundations	Excavation, concrete foundations, ground beams, trench burial, drain isolation and reinstatement.	Completed foundations and civil records
WP-05	External HSAC Fence	Supply and install certified external HSAC fence, posts, clamp bars, toppings, fixings and coatings.	Completed external fence sections
WP-06	Internal Fence / Security Zoning	Supply and install internal HSAC partitions/cages where shown on drawings or quantity schedule.	Completed internal security partitions
WP-07	Vehicle and Pedestrian Gates	Supply and install certified gates, lock hardware, closers, shrouds, sockets, catch posts and associated foundations.	Operational and accepted gates
WP-08	Grounding / Bonding / Access-Control Interfaces	Provide grounding/bonding where required and coordinate interfaces with GYSBI security/access-control systems.	Tested bonding and interface records
WP-09	QA/QC, Testing and Handover	Submit ITP, inspection records, test reports, as-builts, O&M information, warranties and asset data.	Accepted handover dossier

4 CONTRACTOR RESPONSIBILITY, BATTERY LIMITS AND INTERFACES

The Contractor shall be responsible for delivering the Works as a complete, functional and compliant system. Any item required to complete the Works but not expressly excluded shall be deemed included. The Contractor shall identify all assumptions, exclusions, qualifications and required GYSBI inputs in its tender submission.

Single Point of Responsibility

The Contractor shall be the single point of responsibility for design coordination, material compliance, construction sequencing, site execution, quality records and final handover. GYSBI review, comment or approval of Contractor submissions shall not relieve the Contractor of its responsibility for technical compliance, constructability or performance.

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Battery Limits and Interface Matrix

INTERFACE / ITEM	CONTRACTOR RESPONSIBILITY	GYSBI RESPONSIBILITY	TENDER CLARIFICATION REQUIRED
Fence alignment and limits	Verify and set out final alignment from GYSBI drawings and site survey.	Provide available drawings/mark-ups and approve final alignment.	Any discrepancy between drawings and site conditions.
Existing fence removal	Remove, handle and dispose unless designated for salvage.	Identify any items to be retained or salvaged.	Treatment of embedded foundations or buried obstructions.
Temporary perimeter security	Provide temporary physical barrier and sequencing plan.	Approve sequencing/security plan and coordinate security access.	Any required night/weekend security support.
Vegetation clearing	Clear vegetation required for access and installation.	Identify protected areas, restricted zones or disposal constraints.	Exceptional obstructions not visible during tender visit.
Drainage channels	Protect existing drains and drainage structures. Fence posts, gate posts, supports, anchors, brackets, base plates and fixings shall not be mounted to or supported by existing drainage structures. All fence and gate supports shall be installed on independent foundations clear of the drain structure.	Provide known drawings/constraints for existing drainage.	Any damaged or unstable drainage sections discovered.
Underground services	Scan, locate, protect and avoid services before excavation.	Provide known service information where available.	Unknown services or relocation requirements.
Access-control readers/panels	Provide gate hardware interfaces, lock coordination and local mounting provisions as specified.	Provide existing access-control system requirements, programming and final system integration unless stated otherwise.	Exact reader, controller, cabling and power battery limits.
Electrical grounding/bonding	Design, install and test required grounding/bonding network for fence/gates where applicable.	Identify existing grounding systems and restricted electrical zones.	Tie-in point approval and testing witness requirements.
Operations/SIMOPS	Plan work to minimize disruption and maintain safe traffic/pedestrian control.	Coordinate site access windows and operational restrictions.	Any area requiring shutdown or restricted-hours execution.

5 SITE VERIFICATION, SURVEY AND EXISTING CONDITIONS

The Contractor shall inspect the sites prior to submission of its proposal and again before fabrication or construction. The Contractor shall not rely solely on tender drawings for dimensions, levels, existing service locations, foundation conditions or gate clearances.

- Perform a pre-bid site visit and include all reasonably observable site conditions in the tender price.
- Perform a pre-construction survey after award to confirm alignment, linear metres, gate locations, ground levels, drain interfaces and temporary access requirements.
- Submit a survey verification report identifying all conflicts, access constraints, obstructions, assumed quantities and proposed resolutions before procurement of long-lead materials.
- No claim for change in condition shall be accepted for conditions that were visible, reasonably inferable or should have been identified during the tender/site verification process.
- Unknown buried utilities, concealed obstructions or materially different subsurface conditions shall be reported immediately and managed through the contract change process.

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6 TECHNICAL SPECIFICATION - HIGH-SECURITY FENCING SYSTEM

The following requirements define the minimum technical performance of the permanent fencing, gate and associated civil/security works. Where the certified manufacturer installation manual or project drawings require a more stringent detail, the more stringent requirement shall govern.

Design Basis and Governing Parameters

PARAMETER	MINIMUM REQUIREMENT / BASIS
Security rating	Complete installed system certified to LPS 1175: Issue 8, Security Rating B3, including panels, posts, fixings, clamp bars, gates and toppings where applicable.
Fence type	Baseline system is single-skin HSAC 358 welded steel mesh. Approved alternatives may include LPS 1175-certified palisade type fencing, vertical bar railings, or double-mesh 868 fencing where accepted in writing by GYSBI and where all minimum performance requirements of this SOW are maintained or exceeded.
Environment	Hot, humid, corrosive, high-salinity coastal port environment with tropical rainfall and vegetation exposure.
Design life	Minimum 20 years for permanent installed infrastructure, subject to proper maintenance. Tenderers shall state expected service life, coating warranty basis, maintenance assumptions and replacement/repair considerations for each proposed fence type.
Units	Metric dimensions govern. Imperial dimensions are reference values unless specifically identified as the governing standard dimension.
Design responsibility	Contractor/manufacturer shall verify structural sizing, wind loading, foundations, gate support and certified installation requirements.

Security Certification and Product Verification

- The complete, installed perimeter fencing system - including panels, posts, clamping mechanisms, fasteners, gates and toppings - shall be officially certified by the Loss Prevention Certification Board (LPCB) to LPS 1175: Issue 8, Security Rating B3, or an equal/higher rating accepted in writing by GYSBI.
- The manufacturer and specific product model supplied shall be actively listed in the current LPCB RedBook Live database at the time of bidding, procurement and installation.
- Project-specific LPCB certification documentation shall be submitted for review before procurement and again before installation if the selected product, hardware or installation arrangement changes.
- Substitutions, locally fabricated look-alike systems or non-certified alternate fixings shall not be accepted without written approval from GYSBI and documented confirmation that the required rating is maintained.

Approved Alternative Fence Systems

GYSBI may consider alternate fence systems for technical and commercial comparison provided the alternative does not reduce the minimum performance basis of this SOW. Acceptance of an alternate fence type shall be at GYSBI's sole discretion and shall be documented through the tender clarification / technical evaluation process.

The following alternate fence types may be submitted for consideration:

- Palisade type fencing.
- Vertical bar railings.
- Double mesh 868 welded mesh fencing.

Each proposed alternate shall satisfy the following minimum conditions:

- The complete installed system, including panels/rails/pales/bars, posts, fixings, gates, toppings and associated hardware, shall be certified to LPS 1175: Issue 8, Security Rating B3 or an equal/higher rating accepted in writing by GYSBI.
- The manufacturer and exact product model shall be actively listed in the current LPCB RedBook Live database at the time of bidding, procurement and installation, unless a formally approved equal/higher certified system is accepted by GYSBI in writing.
- The alternate shall be suitable for the hot, humid, high-salinity coastal port environment and shall meet the corrosion protection, marine finish, coating repair, rejection and maintenance requirements of this SOW.
- Gates, locking hardware, anti-tamper protection, anti-climb topping, anti-burrow treatment, grounding/bonding interfaces and access-control interfaces shall match the selected certified system and maintain the same accepted security rating.

- The alternate shall not rely on non-certified look-alike fabrication, tie wire, light-duty brackets, exposed removable fixings, thin zinc-coated components, unauthorized field welding, or any component arrangement that weakens the certified system.
- The Contractor shall identify all deviations from the baseline HSAC 358 system and provide a side-by-side comparison of installed cost, design life, maintenance requirements, lead time, constructability, and replacement/repair considerations for inclusion in Appendix A.

Premium Industrial Security Chain Link Fence Specification

Option C shall be specified and priced as a maximum-quality industrial/security chain link system intended to narrow the performance and durability gap between ordinary chain link and the certified HSAC options. Ordinary commercial/residential chain link is not acceptable.

Notwithstanding the certification conditions stated for the alternatives above, GYSBI may accept this option as a separately priced value-engineering alternate. It shall not be represented as equivalent to an LPS 1175 Issue 8 Security Rating B3 system unless the complete installed chain link system is independently certified to that rating. Where selected, the following component schedule governs incompatible HSAC mesh-panel and fixing requirements. All common requirements of this SOW remain applicable unless expressly modified below.

Component	Minimum Requirement for Option C
Security status	Value-engineering alternate only. Not equivalent to LPS 1175 B3 HSAC unless the complete installed chain link system is independently certified to that rating.
External fence height	Price external perimeter as 3.0 m minimum chain-link fabric height plus anti-climb topping unless a lower height is specifically directed by GYSBI for a defined location. Internal chain-link areas, if selected, shall be 2.4 m minimum unless otherwise shown.
Mesh opening	Maximum 38 mm diamond mesh. 25 mm mesh is preferred.
Fabric wire	Minimum 6 gauge steel core before protective coating. 9 gauge fabric shall be treated as a downgrade/deviation and shall not be used unless expressly accepted in writing by GYSBI.
Fabric coating	Factory galvanized steel core with factory fused/bonded PVC, polyolefin or thermoplastic coating suitable for coastal industrial service. Painted-after-installation fabric is not acceptable. Tenderer shall submit coating thickness, core wire gauge, warranty and repair procedure.
Framework	Heavy-wall industrial fence framework, hot-dip galvanized and factory coated for marine/coastal exposure. Framework shall comply with ASTM F1043/F1083 or approved equivalent and shall be sized by design for wind and gate loads.
Post spacing	Maximum 2.5 m unless a wider spacing is justified by stamped/vendor design and approved by GYSBI.
Line posts	Minimum NPS 2-1/2 / approximately 73 mm OD Schedule 40 or engineered equivalent; larger where required by height, wind, loading or manufacturer design.

Component	Minimum Requirement for Option C
Terminal/corner/strainer posts	Minimum NPS 4 / approximately 114 mm OD Schedule 40 or engineered equivalent; larger where required by gates, corners, pulls, wind or manufacturer design.
Rails	Continuous top rail and bottom rail required. For 3.0 m fabric, provide an intermediate rail unless manufacturer design demonstrates equal or superior stiffness without it. The system shall not rely only on loose strain wire for top/bottom restraint.
Tie wire / clips / hog rings	Type 316 stainless steel only. Galvanized tie wire, clips or hog rings are prohibited.
Strain / tension wire	Type 316 stainless steel only where used. Galvanized strain or tension wire is prohibited. Use rails wherever practical rather than relying on strain wire alone.
Razor / barbed wire	Where razor wire, barbed wire or other wire-based topping is proposed, it shall be Type 316 stainless steel. Galvanized razor wire, galvanized barbed wire and 430-series stainless wire are prohibited. Alternative anti-climb toppings, including shark's teeth or equivalent proprietary systems, may be accepted subject to written approval by GYSBI. The Contractor shall submit the proposed topping type, materials, corrosion-protection system, configuration and location for approval by GYSBI Security.
Fasteners and small hardware	Bolts, nuts, washers, hinge pins, latch parts, bands, clamps, caps, hasps, lock shrouds, brackets and exposed small hardware shall be Type 316 stainless steel unless GYSBI approves a manufacturer-proven marine-grade coated component in writing.
Gates	Gates shall be heavy-duty industrial/security gates matching the selected fence height, fabric, coating and hardware requirements. Light-duty farm/commercial chain-link gates are not acceptable. Gate posts, hinges, latches, locks, drop rods and shrouds shall be sized for repeated port-service use.
Anti-burrow	Concrete ground beam/plinth is preferred for external chain link. Buried fabric alone shall not be used unless manufacturer-approved and specifically accepted by GYSBI.
Welding	No field welding, tack welding, welded site modification, welded site repair or welding to existing structures is permitted. Factory/manufacturer welded components are acceptable only where welding is completed before galvanizing/coating and is part of the standard product.
Coating damage	Cut, drilled, abraded or damaged coatings shall be repaired using manufacturer-approved repair procedures. Components with visible corrosion, exposed bare steel outside approved repair limits, or unacceptable coating damage shall be rejected and replaced.
Design life	Tenderer shall state expected service life, coating warranty, maintenance assumptions and replacement/repair considerations for coastal Guyana exposure.

Mandatory Material Restrictions

- Galvanized tie wire, galvanized clips, galvanized hog rings, galvanized strain/tension wire, galvanized razor wire and galvanized barbed wire shall not be used.
- Field welding is prohibited for all fence options. Any connection required in the field shall be mechanical, bolted, clamped or manufacturer-approved.
- Any required stainless steel shall be Type 316 / A4 marine-grade stainless unless a higher grade is specified or accepted by GYSBI.

- Unauthorized substitutions, light-duty brackets, exposed removable fixings, thin zinc-coated small components or undocumented local fabrication shall be cause for rejection.

Baseline HSAC 358 Mesh Panel Specification

The following mesh panel requirements apply to the baseline HSAC 358 option. Where an approved palisade, vertical bar railing or double-mesh 868 system is selected, the manufacturer-certified system details and accepted Appendix A evaluation shall govern, provided the minimum security, durability and installation requirements of this SOW are not reduced.

- Fence panels shall consist of a single-skin HSAC 358 welded steel wire mesh pattern.
- Nominal mesh openings shall be 76.2mm horizontal x 12.7mm vertical (3 inches x 0.5 inches) to restrict climbing footholds/finger holds and insertion of opportunistic tools.
- Mesh panels shall be manufactured from hard-drawn steel wire with a minimum nominal core diameter of 4.0mm before protective coatings.
- Panels shall remain straight, plumb and free from deformation, coating damage or sharp projections after installation.

Posts, Fixings and Clamping Mechanisms

Posts shall be heavy-duty steel RHS/SHS sections sized by the certified manufacturer/Contractor to withstand local wind loading and maintain LPS 1175 B3 compliance. Minimum post profile shall be 80mm x 60mm x 3mm wall thickness unless the certified design requires larger.

- Baseline HSAC 358 panels shall be secured using continuous full-height steel clamp bars, minimum 40mm x 5mm, or larger where required by the certified system. Approved alternate systems shall use the manufacturer-certified posts, rails, bars, pales, clamp bars and/or anti-tamper fixing arrangement required to maintain the accepted security rating.
- Intermittent clips, tie wire, exposed removable fixings or light-duty brackets are not acceptable for external perimeter fence sections unless such components form part of the certified system and are specifically approved in writing by GYSBI.
- Panel-to-post fixings shall be stainless steel tamper-resistant fasteners, installed on the secure/internal side of the perimeter line and spaced in accordance with the manufacturer certified design.
- Fasteners shall be tightened to manufacturer torque requirements and recorded as part of the installation QA/QC records where specified by the ITP.

Civil Interface, Drainage and Anti-Burrow Requirements

- Existing drainage channels, drain walls, drain slabs, drain covers, curbs, culverts and related drainage structures shall not be used as structural supports, foundation

elements, anchoring points, bracing points, or mounting surfaces for the permanent or temporary fencing system.

- Fence posts, gate posts, support posts, clamp bars, brackets, base plates, sleeves, dowels, anchors, chemical anchors, core-drilled connections, welded attachments, bolted connections, or any other fence-supporting component shall not be fixed to, embedded into, cast into, drilled into, clamped to, or otherwise connected to existing drainage structures.
- All fence and gate support elements shall be installed on independent foundations located clear of existing drainage structures. The Contractor shall maintain the structural integrity, hydraulic capacity, access for cleaning, and maintainability of all existing drainage assets throughout the Works.
- Fence lines adjacent to concrete drainage channels shall run parallel to, and immediately behind, the secure side of the existing concrete drainage channel walls unless otherwise shown on approved drawings.
- Fence posts shall be structurally isolated from concrete drainage assets and installed in independent concrete foundation pockets excavated behind the back wall of the drainage channel.
- The bottom edge of the HSAC 358 mesh panel shall overlap the back vertical face of the concrete drainage channel where practicable. The clearance gap between the mesh panel and any point of the concrete drain structure shall not exceed 50mm unless otherwise approved.
- In areas without drainage channels, anti-burrow protection shall be provided by below-ground mesh burial to a minimum depth of 300mm or by a concrete ground beam/plinth minimum 200mm wide x 300mm deep, as directed by approved drawings.
- On uneven terrain, panels shall be stepped using extended posts. Overlap/gap tolerances shall maintain the specified security integrity, with a maximum gap of 50mm unless the certified system requires tighter tolerances.

Integrated Anti-Climb Topping

- External perimeter fence sections shall include an integrated heavy-duty steel anti-climb spike/topping system where shown on drawings or required by the security specification.
- Concertina wire or strand razor wire toppings are not acceptable unless separately approved by GYSBI for a specific location.
- Topping systems shall form part of the certified system assembly and shall be installed only using manufacturer-approved components, posts and brackets.
- Fence posts shall extend sufficiently beyond the mesh panel to provide rigid structural support for the topping system.

Corrosion Protection and Marine Finish

- All raw steel components, including panels, posts, clamp bars, gate frames, brackets and toppings, shall be hot-dip galvanized after cutting and welding are complete.
- Hot-dip galvanizing shall comply with BS EN ISO 1461 or an approved equivalent, with minimum average coating thickness aligned with the manufacturer certified system and the marine/coastal environment.
- Following galvanization, a marine-grade thermoplastic or architectural polyester powder coating shall be applied to a minimum thickness of 100 microns unless the approved manufacturer data sheet requires a greater thickness.
- Colour shall be **Moss Green RAL 6005** unless otherwise instructed by GYSBI.
- Damaged coating shall be repaired using manufacturer-approved repair procedures. Components with exposed raw steel larger than 25mm² or structural deformation shall be rejected and replaced.

Concrete and Foundations

- Concrete for fence post foundations, ground beams and plinths shall achieve a minimum compressive strength of 4,000 psi (approximately 28 MPa / C25/30) at 28 days unless design calculations require higher strength.
- Concrete production, delivery, placement and testing shall comply with ASTM C94 or equivalent accepted standard.
- Concrete mix design for coastal exposure shall limit permeability and chloride ingress. Water-to-cementitious materials ratio shall not exceed 0.42 unless otherwise justified by the approved design.
- Post holes shall be clean, free from loose material, standing water and coastal mud before concrete placement.
- Concrete shall be consolidated to eliminate voids and honeycombing. Post foundations shall protrude 50mm above final grade and be sloped away from steel posts to shed water.

- No panel loading, gate hanging or tensioning shall occur until foundations have cured for at least seven days or achieved at least 70% of specified 28-day design strength.

Vehicle Gates

- Vehicle gates shall match the certified fence system and shall be certified to LPS 1175: Issue 8, Security Rating B3 or equal/higher rating accepted in writing by GYSBI.
- Gate type, clear opening, swing direction, sliding/cantilever arrangement and locking hardware shall match the approved gate schedule and site drawings.
- Gate leaves shall match the approved adjacent fence system and shall maintain the same certified security rating, finish quality, anti-tamper protection and corrosion protection as the selected fence type.
- Manual vehicle gates shall use heavy-duty slide latch or locking bolt mechanisms integrated into the certified design. Padlocks shall be protected by anti-tamper shrouds so shackles are inaccessible from the insecure side.
- Double-leaf swing gates shall include heavy-duty internal drop bolts into concrete sockets unless the certified system uses an approved alternate arrangement.
- Wide-span gates shall be engineered for dead loads, wind loads, deflection, rolling/cantilever loads and foundation requirements. Main support foundations shall be designed by a qualified structural engineer.

Pedestrian Gates and Access-Control Interfaces

- Pedestrian gates shall be matching, certified units to the same security rating as the surrounding fence unless specifically identified otherwise.
- Gate clear width, opening direction, egress hardware and accessibility requirements shall be coordinated with GYSBI and shown on the approved gate schedule.
- Where electronic ingress is required, the Contractor shall provide lock hardware, mounting provisions and interface wiring/termination points as defined in the battery limit matrix and approved access-control detail.
- Interior egress shall prioritize life safety and shall remain mechanically operable during loss of power where panic hardware or emergency egress is specified.
- Reach-through protection shall be provided around locksets, panic bars and release hardware to prevent manipulation from the insecure side.

Internal Security Fencing

- Internal security partitions, cargo cages and bonded storage zoning shall use matching HSAC 358 mesh and maintain equivalent physical attack resistance unless otherwise approved.
- Internal fencing is exempt from external anti-climb toppings and anti-burrow provisions unless specifically required on drawings or by GYSBI Security.
- Internal posts shall use heavy-duty baseplates anchored to the slab using approved tamper-resistant mechanical or chemical anchors installed from the secure side of the partition.
- The maximum vertical clearance between the bottom of internal mesh panels and finished floor shall not exceed 50mm.
- Internal fences do not require a continuous grounding grid unless active electrical utilities, access-control devices or data enclosures are mounted to the fence structure.

Electrical Grounding and Equipotential Bonding

- The Contractor shall design, supply, install and test grounding and equipotential bonding required for perimeter fencing, gates and fence-mounted electrical/security equipment.
- Fencing shall be bonded to the grounding electrode system where required by applicable electrical code, where located near exposed conductors/equipment, or where supporting active utilities such as CCTV, lighting, access control or intrusion devices.
- Bonding jumpers shall bypass coated joints where coating interrupts electrical continuity. Gates shall be bonded to support posts using flexible braided copper bonding straps or approved equivalent.
- Grounding electrodes, conductors, clamps and buried bonding connections shall be selected and installed in accordance with approved design calculations and applicable electrical code.
- Direct contact between bare copper and galvanized steel components shall be avoided. Bimetallic interfaces, tinned lugs, stainless fasteners and anti-corrosion compound shall be used where required to prevent galvanic degradation.

Prohibition of Field Welding and Unauthorized Modification

- On-site welding, thermal cutting or arc-welding of certified fence components is prohibited unless specifically permitted in the manufacturer certified installation procedure and approved in writing by GYSBI.
- The Contractor shall not drill, alter, cut or modify certified posts, panels, clamp bars, gates, toppings or structural profiles on site unless the modification is shown in the certified manufacturer installation manual and approved for the project.
- Unauthorized modification shall be grounds for rejection of the affected section and replacement at Contractor cost.
- All structural joints and connections shall rely on manufacturer-certified mechanical clamping systems, factory-finished components and tamper-resistant security fasteners.

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7 ENGINEERING AND DESIGN DELIVERABLES

The Contractor shall prepare, submit and obtain approval for all engineering documentation necessary to demonstrate technical compliance and constructability. No construction shall commence until the applicable IFC drawings, installation methodology and critical design submittals have been approved for construction.

Deliverable	Minimum Content	Timing / Gate
Survey Verification Report	Verified alignment, quantities basis, gate locations, levels, drain interfaces, obstructions, photos and assumptions.	Before fabrication and procurement hold release
Design Basis / Calculations	Wind loading, post sizing, foundation sizing, gate support calculations, grounding/bonding basis and design assumptions.	Before IFC approval
Manufacturer Technical Package	LPCB certificate, RedBook evidence, data sheets, installation manual, coating system, fasteners, gate hardware and topping details.	Before material procurement
Shop Drawings	Fence elevations, sections, post/foundation details, gate details, stepping, drain interfaces, anti-burrow details and access-control interfaces.	Before fabrication
Gate Schedule	Gate ID, location, type, clear width, hardware, lock type, egress/access-control requirements and special notes.	Before gate fabrication
Method Statement / Execution Plan	Sequencing, temporary barrier, SIMOPS, traffic control, excavation, lifting, installation, coating protection and QA/QC controls.	Before site works
Inspection and Test Plan	Hold/witness points, acceptance criteria, test forms, responsibility matrix and required records.	Before site works
IFC Drawings	Approved construction drawings issued for field execution.	Construction may proceed only after approval
As-Built Drawings	Final installed alignment, gate IDs, grounding/bonding points, deviations and asset references.	Before final acceptance
Fence Type Alternative / Selection Package	For each proposed fence type: product data, LPCB/RedBook evidence, system drawings, gate compatibility, coating/design-life basis, maintenance requirements, lead time, deviations from baseline and budgetary cost comparison basis.	With tender submission / before fence type selection

GYSBI approval of submissions does not transfer design responsibility or relieve the Contractor from complying with the Contract, SOW, certified manufacturer requirements or applicable standards.

8 EXECUTION, SIMOPS, TEMPORARY WORKS AND SECURITY CONTINUITY

Security Continuity Requirement

The Contractor shall maintain continuous physical perimeter security throughout the Works. Removal of existing fence shall not proceed until an approved replacement sequence or temporary physical barrier is in place and accepted by GYSBI Security/PMO.

- Submit a section-by-section replacement sequence identifying maximum open length, working hours, temporary barrier type, guard support if required, and daily make-safe requirements.
- Temporary barriers shall be physically continuous, stable, and suitable for the security risk and duration of the workfront.
- Temporary security arrangements shall be inspected daily and after heavy rain, high wind, vehicle impact, or operational incidents.
- Any breach, weakness or unplanned gap in the temporary or permanent perimeter shall be reported immediately and made safe without waiting for routine approvals.

Site Execution Requirements

- Comply with GYSBI permit-to-work, HSE, site access, traffic management, lifting and excavation requirements.
- Coordinate SIMOPS with GYSBI operations, tenants and third-party contractors.
- Provide barricading, signage, lighting, spotters and traffic control where works interface with roads, laydown areas, operating equipment or pedestrian routes.
- Protect existing drainage, utilities, pavement, structures, security assets and customer/tenant operations from damage.
- Maintain housekeeping and remove waste, surplus materials and rejected components from site on a regular basis.
- Reinstate areas disturbed by the Works to a condition acceptable to GYSBI unless otherwise stated.

9 QUALITY ASSURANCE, INSPECTION AND TEST PLAN

The Contractor shall operate a documented QA/QC process and submit an Inspection and Test Plan (ITP) for approval before commencement of site works. The ITP shall identify inspection frequency, acceptance criteria, records, hold points, witness points and responsible parties.

Inspection / Test Activity	Minimum Acceptance Criteria	Record Required	GYSBI Point
Material certification	Active LPCB/RedBook listing; correct product model; MTRs; coating certificates.	Approved submittal package	Hold before procurement
Material receipt inspection	Correct product, labels, dimensions, no coating damage or deformation.	Material receipt inspection report/photos	Witness as required
Post-hole / excavation inspection	Correct location, depth, cleanliness, service clearance and drain isolation.	Pre-pour checklist/photos	Hold before concrete
Concrete testing	Specified mix, placement, consolidation, cube/cylinder results where required.	Concrete delivery/test records	Witness as required
Panel installation	Plumb/line/level, correct clamp bars, fasteners, gaps and security side orientation.	Daily installation checklist	Witness/sample inspection
Gate installation	Correct operation, alignment, latch/lock engagement, closers, drop bolts, shrouds and safety devices.	Gate commissioning checklist	Witness
Grounding/bonding	Continuity, connection quality, corrosion protection and resistance testing where required.	Electrical test report	Witness
Coating and touch-up	No unacceptable exposed steel, scratches repaired with approved method.	Coating inspection record	Witness/sample inspection
Final walkdown	Punch list closed, as-built compliance statement issued.	Signed completion checklist	Hold before final acceptance

10 TESTING, COMMISSIONING AND ACCEPTANCE

The Contractor shall perform and document all testing necessary to demonstrate safe, secure and compliant operation before handover. Testing shall be witnessed by GYSBI where required by the approved ITP.

Pre-Commissioning Requirements

- Complete installation of all fence, gates, foundations, grounding/bonding and associated hardware.
- Rectify all identified defects and close any open non-conformances affecting security, safety, durability or operation.
- Submit preliminary as-built markups, material records, test records and commissioning checklists.
- Confirm system readiness for joint inspection with GYSBI PMO, Engineering, Security and Operations as applicable.

Commissioning and Acceptance Criteria

- Fence alignment, height, panel gaps, stepping, anti-burrow details and toppings comply with approved drawings and certified system requirements.
- Posts, foundations and civil interfaces show no visible instability, cracking, voiding, drainage conflict or unacceptable standing-water condition.
- All fasteners, clamp bars and tamper-resistant fixings are installed on the correct side and tightened/secured in accordance with manufacturer instructions.
- All gates operate smoothly, latch/lock positively, close as specified and maintain required security clearances.
- Access-controlled pedestrian gates, where applicable, demonstrate secure ingress, emergency egress, key override, fail-secure/fail-safe behavior as approved, and reach-through protection.
- Grounding/bonding tests are completed and accepted where grounding/bonding is required.
- Coating damage has been repaired or rejected components replaced.
- Punch-list items are closed or formally accepted as deferred minor items by GYSBI in writing.

Failure to meet performance or acceptance requirements shall require corrective action and re-testing at the Contractor cost.

11 HANDOVER, WARRANTY AND DEFECTS LIABILITY

Final Acceptance shall only be granted after successful completion of commissioning, closure of critical punch-list items and submission of an acceptable Handover Dossier.

Handover Item	Minimum Requirement
As-Built Drawings	Final fence/gate alignment, gate IDs, grounding/bonding points, anti-burrow details and approved deviations.
O&M Manuals	Manufacturer maintenance requirements, inspection intervals, repair procedures, cleaning/coating guidance and spare parts information.
Certification Records	LPCB certificate, RedBook evidence, material certificates, galvanizing/coating records and compliance statement.
Testing and Commissioning Reports	Concrete tests, installation checklists, torque/fastener records where required, gate tests and grounding/bonding reports.
Warranty Certificates	Manufacturer and Contractor warranties, coating warranty and gate/hardware warranty information.
Asset Register	Fence sections, gate IDs, lock/hardware details, keys, access-control interface points and maintainable components.
Spare Parts List	Recommended spares, special tools, touch-up paint/coating repair materials and replacement hardware.
As-Built Compliance Statement	Signed statement confirming that the installed system conforms to approved drawings, certified design and this SOW.

A twelve (12) month Defects Liability Period shall commence from Final Acceptance unless a longer period is stated in the Contract. During the DLP, the Contractor shall rectify defects arising from materials, workmanship, installation or non-compliance at the Contractor cost.

12 REPORTING AND PROGRESS MANAGEMENT

The Contractor shall provide structured reporting throughout engineering, procurement, fabrication, installation, testing and handover.

Report Type	Frequency	Minimum Content
Daily Report	Daily during execution	Completed activities, manpower, equipment, weather, delays, hindrances, HSE observations, quality issues, forecast for following day, photos.
Weekly Progress Report	Weekly during execution	Completed activities, planned activities, progress against schedule, manpower, equipment, HSE observations, quality issues, photos, risks and required decisions.
Monthly Summary Report	Monthly or as required by PMO	Schedule update, engineering/procurement status, risk register, change log, key constraints and look-ahead plan.
Immediate Notification	Immediately upon occurrence	Security breach, unsafe condition, damage to existing assets, schedule-critical issue, access-control conflict, buried service discovery or any issue affecting perimeter security continuity.
Final Closeout Report	Before final acceptance	Completed scope summary, final quantities, deviations, punch-list closure, lessons learned and handover dossier index.

13 SCHEDULE REQUIREMENTS

A detailed logic-linked schedule shall be submitted within sixteen (16) calendar days of award unless otherwise stated in the Contract. The schedule shall show engineering, approvals, procurement, manufacturing, shipping, site mobilization, temporary security installation, removal works, civil works, fence/gate installation, testing, punch-listing and handover.

- The schedule shall identify long-lead items, critical path, required GYSBI approvals and interface dates.
- The Contractor shall include adequate allowance for GYSBI review periods and shall not treat normal review time as a compensable delay.
- Schedule updates shall include actual progress, forecast completion, critical risks and recovery actions where slippage occurs.
- Work sequencing shall prioritize perimeter security continuity and operational access requirements.

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14 KEY PERSONNEL AND ORGANIZATION

The Contractor shall assign suitably qualified and experienced personnel to execute the Works. Key personnel shall be identified in the tender submission and shall not be replaced after award without prior written approval from GYSBI.

Project Manager Requirement

The Contractor shall appoint a dedicated Project Manager who shall be based on site or otherwise available as approved by GYSBI for the duration of installation and commissioning activities.

- Authorized to make binding technical and commercial decisions on behalf of the Contractor.
- Single point of contact with GYSBI PMO.
- Responsible for schedule, interfaces, safety coordination, QA/QC closeout and daily execution control.
- Required to attend coordination meetings, site walkdowns and progress reviews as requested by GYSBI.

The proposed Project Manager CV shall be submitted as part of the tender submission for review and approval. GYSBI reserves the right to reject any proposed Project Manager. Replacement of the approved Project Manager during execution shall require prior written approval from GYSBI.

15 ASSUMPTIONS, EXCLUSIONS AND OUT OF SCOPE

The Contractor shall clearly list all assumptions and exclusions in its tender. Any exclusion not accepted by GYSBI in writing shall not amend the Contractor scope.

Out of Scope Unless Specifically Added by the ITT or Drawings

- CCTV cameras and camera system equipment.
- Perimeter lighting fixtures and lighting power distribution, except mounting/interface provisions specifically shown in the fence/gate design.
- Programming of GYSBI access-control panels, cards, user permissions or central security software.
- Major repair, reconstruction or replacement of existing drainage channels, roads, pavements or underground utilities unless damaged by the Contractor or specifically identified in the drawings/BOQ.
- Permanent security staffing or guard services, except temporary support expressly required by an approved security continuity plan.
- Relocation of unknown underground utilities unless included by approved variation.

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16 QUANTITY SCHEDULE / BOQ FRAMEWORK

Final quantities shall be developed after the fence/gate alignment survey and drawing markups are confirmed. The tender BOQ shall be structured to make pricing transparent and reduce later ambiguity.

BOQ Ref	Description	Unit	GSB Quantity	GIE Quantity	Notes / Measurement Rule
O-01	Preliminary Construction Activities	Lot	1	1	Management activities necessary for submittals, procurement, and work method statements.
O-02	Project Safety	Lot	1	1	All HSE related activities, submittals, and PPE, including full time HSE Officer.
O-03	Project Quality Control	Lot	1	1	All QA/QC related activities, inspections, testing, including full time QC Officer.
O-04	Survey & Assessment at GSB	Lot	1	1	Perform detailed site survey to calculate exact quantities of selected fence type.
O-05	Survey & Assessment at GIE	Lot	1	1	Perform detailed site survey to calculate exact quantities of selected fence type.
Q-01	Remove existing fence	m	1837.7	4125.6	Measured along existing fence centreline unless otherwise stated.
Q-02	Remove existing gates	ea	13	6	Measured per complete gate assembly removed.
Q-03	Vegetation clearing along fence line	m	463.5	1315.8	Assumed clearing along portions of exterior fence.
Q-04	External high-security perimeter fence with anti-climb topping - selected/approved fence type	m	876.1	2272.8	Measured along new fence centerline; state proposed fence type. Gate openings are excluded.
Q-05	Internal high-security perimeter fence with	m	816.6	706.7	Measured along new fence centerline; state

	topping - selected/approved fence type				proposed fence type. Gate openings are excluded.
Q-06	Internal high-security security fencing / partitions without topping - selected/approved fence type	m	35	1495.8	Measured along new fence centerline; state proposed fence type. Gate openings are excluded.
Q-07	Fence post foundations	ea / incl.	n/a	n/a	Included in fence rate.
Q-08	Concrete ground beam / plinth anti-burrow detail	m	876.1	2979.4	Measured by installed linear meter.
Q-09	Below-ground mesh burial / trench anti-burrow detail	m	TBD	TBD	Used as an alternate to Q-08 pending type of fence proposed.
Q-10	Manual vehicle gate assembly	ea	Refer Gate Schedule	Refer Gate Schedule	List by gate ID and clear opening.
Q-11	Pedestrian gate assembly	ea	Refer Gate Schedule	Refer Gate Schedule	List by gate ID, hardware and access-control interface.
Q-12	Grounding and bonding system	Lot	5	10	Complete system per area.
Q-13	Temporary security barrier	m	876.1	2272.8	State barrier type, duration and relocation assumptions.
Q-14	Testing, commissioning and handover dossier	Lot	1	1	Complete closeout documentation and acceptance support.
Q-15	Recommended spare parts and touch-up materials	Lot	1	1	To be itemized by Contractor pending fence type.

Gate Schedule

Each gate shall be individually identified so pricing, fabrication, hardware, access-control requirements and acceptance records can be tied to a unique asset.

Gate ID	Site	Location	Gate Type	Replace	Clear Opening	Hardware / Access-Control Notes
G-01	GSB	Main North Gate	Vehicle – Sliding	No	12 M	Padlock
G-02	GSB	Main North Gate	Pedestrian	No	1.2 M	Padlock
G-03	GSB	Main South Gate	Vehicle – Sliding	No	12 M	Padlock
G-04	GSB	Ops Warehouse – East	Vehicle – Swing	Yes	6 M	Padlock
G-05	GSB	Ops Warehouse – East	Pedestrian	Yes	1.2 M	Electronic

G-06	GSB	Ops Warehouse – North	Pedestrian	Yes	1.2 M	Emergency Only
G-07	GSB	Ops Warehouse – North	Pedestrian	Yes	1.2 M	Emergency Only
G-08	GSB	Ops Warehouse – West 1	Vehicle – Swing	Yes	6 M	Padlock
G-09	GSB	Ops Warehouse – West 2	Vehicle – Swing	Yes	6 M	Padlock
G-10	GSB	Ops Warehouse – West 3	Pedestrian	Yes	1.2 M	Electronic
G-11	GSB	South Perimeter – SES	Pedestrian	Yes	1.2 M	Padlock
G-12	GSB	SES Main	Vehicle – Sliding	No	12 M	Padlock
G-13	GSB	DW – South 1	Vehicle – Swing	Yes	6 M	Padlock
G-14	GSB	DW – South 2	Pedestrian	Yes	1.2 M	Emergency Only
G-15	GSB	DW – South 3	Pedestrian	Yes	1.2 M	Electronic
G-16	GSB	DW – South 4	Pedestrian	Yes	1.2 M	Padlock
G-17	GSB	DW – West 1	Vehicle – Sliding	No	6 M	Padlock
G-18	GSB	DW – West 1a	Pedestrian	No	1 M	Padlock
G-19	GSB	DW – West 2	Vehicle – Sliding	No	6 M	Padlock
G-20	GSB	DW – West 2a	Pedestrian	No	1 M	Padlock
G-21	GSB	DW – North	Pedestrian	Yes	1.2 M	Padlock
G-22	GSB	Berth 4 North – East 1	Vehicle – Swing	Yes	12 M	Padlock
G-23	GSB	Berth 4 North – East 2	Vehicle – Swing	Yes	6 M	Padlock
G-24	GIE	SLB – East	Vehicle – Sliding	Yes	12 M	Padlock
G-25	GIE	Noble – West 1	Vehicle – Sliding	No	16 M	Padlock
G-26	GIE	Noble – West 2	Vehicle – Sliding	No	16 M	Padlock
G-27	GIE	Plot 3 – East 1	Vehicle – Bifold	Yes	12 M	Padlock
G-28	GIE	Plot 3 – East 2	Pedestrian	Yes	1.2 M	Electronic
G-29	GIE	Plot 4 – North 1	Vehicle – Swing	Yes	12 M	Padlock
G-30	GIE	Plot 4 – North 2	Pedestrian	Yes	1.2 M	Electronic
G-31	GIE	P7 MW East 1	Vehicle – Sliding	No	12 M	Padlock
G-32	GIE	P7 MW East 2	Vehicle – Sliding	No	12 M	Padlock
G-33	GIE	P7 Puffer	Vehicle – Sliding	No	12 M	Padlock
G-34	GIE	Friedlander	Vehicle – Swing	Yes	12 M	Padlock
G-35	GIE	P7 AES – East	Vehicle – Swing	Yes	12 M	Padlock
G-36	GIE	P7 AES – Perimeter	Vehicle – Swing	Yes	12 M	Padlock
G-37	GIE	Friedlander 2	Vehicle – Swing	Yes	12 M	Padlock
G-38	GIE	P7 Generator	Pedestrian	Yes	1.2 M	Padlock
G-39	n/a	Spare	Vehicle – Swing	Yes	12 M	Padlock
G-40	n/a	Spare	Vehicle – Swing	Yes	6 M	Padlock
G-41	n/a	Spare	Pedestrian	Yes	1.2 M	Padlock
G-42	n/a	Spare	Pedestrian	Yes	1.2 M	Padlock

17 APPENDICES

The following appendices shall be included or referenced:

- Appendix A – GSB Fence Location Detail
- Appendix B – GIE Fence Location Detail
- Appendix C – Fence Type Selection Criteria

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APPENDIX C - FENCE TYPE SELECTION CRITERIA

This appendix records the basis used to compare acceptable fence types before final recommendation. It is intended to demonstrate due diligence, compare design life / value add, and support selection based on factual technical and commercial considerations. Final quantities and budget values shall be developed in the separate cost comparison spreadsheet and inserted or referenced here before final issue.

Fence types considered:

- Baseline HSAC 358 welded mesh fencing.
- Palisade type fencing.
- Vertical bar railings.
- Double mesh 868 welded mesh fencing.
- Premium industrial security chain link fencing (value-engineering alternate).

Minimum comparison criteria:

The comparison shall not treat lowest first cost as the sole selection driver. Each option shall be screened against the minimum security rating, installed system certification, suitability for coastal Guyana conditions, gate and hardware compatibility, anti-climb/anti-burrow performance, corrosion protection, expected design life, maintenance burden, delivery schedule, constructability and total installed cost.

Preliminary Fence Type Comparison Matrix

Fence Type	Minimum Technical Gate	Cost / Design-Life Inputs	Selection Notes
HSAC 358 welded mesh (baseline)	Complete LPS 1175 Issue 8 SR B3 or accepted equal/higher system; RedBook listed; certified gates/toppings/fixings.	Baseline supplier quote, installed cost per metre, gate costs, shipping/import, foundation/civil allowances, coating warranty, expected maintenance.	Basis of design / preferred starting point. Alternate must prove it is not technically inferior.
Palisade type fencing	Only acceptable as a complete certified system meeting the same rating and SOW corrosion, gate, anti-climb and anti-burrow requirements.	Supplier quote, gate/hardware compatibility, post/foundation assumptions, coating system, lead time, maintenance and repair basis.	Evaluate where durability, availability or cost provides value without reducing security.
Vertical bar railings	Only acceptable as a complete certified system meeting the same rating and SOW corrosion, gate, anti-climb and anti-burrow requirements.	Supplier quote, bar/rail/post system, certified gate options, foothold/reach-through controls, coating system, lead time and maintenance basis.	Confirm anti-climb performance and certified gate/security hardware before accepting.
Double mesh 868 welded mesh	Only acceptable as a complete certified system meeting the same rating and SOW corrosion, gate, anti-climb and anti-burrow requirements.	Supplier quote, wire diameter/coating basis, post/fixing system, certified gate options, anti-climb/gap controls, lead time and maintenance basis.	Confirm the exact 868 product achieves required rating with proposed posts/fixings.
Premium industrial security chain link	Lower-security value-engineering alternate unless certified. Requires maximum-spec fabric/framework, 316 stainless small hardware/topping, anti-burrow, rails, marine coating and no field welding.	Supplier quote, local installation rate, stainless hardware/topping costs, gate costs, coating warranty, expected maintenance burden, repair practicality.	Required for management comparison. Should not be treated as equivalent to the selected rated fence unless independently certified as a complete system.

Budgetary cost comparison basis:

For each fence type, the budgetary comparison shall include supply of certified fence system, posts, gates, lock hardware, anti-climb topping, anti-burrow treatment, foundations/civil works, coatings and coating repair materials, shipping/freight, import duties/taxes where applicable, local handling, installation labour/equipment, temporary security, testing/commissioning, handover documentation, contingency and any exclusions/assumptions.

Published estimating data or means-manual allowances may be used only as a secondary reasonableness check. The primary budget basis should be supplier quotations, local contractor installation rates, project-specific civil quantities, freight/import assumptions and the confirmed GSB/GIE site conditions.

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Recommendation basis:

The recommended fence type shall be the option that provides the best balance of compliant security performance, durability in the site environment, maintainability, delivery certainty and total installed cost. Any recommendation for an alternate fence type shall clearly state why the alternate is not technically inferior to the baseline HSAC 358 basis of design.

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