

Scope of Works for Assembling and Installation of Steel Building for GSB Power Station

A. Introduction

 As part of Guyana Shore Base Inc.'s (GYSBI's) continuous expansion program we seek to construct a new power station for our Shore base. We therefore seek a suitably qualified Contractor to execute the erection and assembly of a prefabricated steel building for this new facility.

B. Requirements

- The Contractor shall establish storage area including designated incoming materials and finished materials areas, and a prefabrication area.
- The Contractor shall receive, inspect, and store all materials and notify Company immediately in writing of any damages, shortages, or overages.
- The Contractor shall furnish to the Client a Level 3 Schedule for the assembling of the structure.
- The Contractor shall provide an Organisation Chart detailing all personnel and where applicable valid certification for all Operators.
- The Contractor should provide a list of Certified Lifting and MEWP Equipment for the Project, tools, and personnel necessary for the safe transporting, handling, assembling, and erecting of the building in keeping with GYSBI's QHSSE Policy.
- The Contractor shall provide notification of inspection to Company for all testing, inspection and examination including performed per project specification; generally, administer QA/QC activities.



C. Technical Specifications

INSTALLATION

- All structures shall be assembled and installed in accordance with the instruction of the manufacturer, as shown on the Drawings and as specified herein. A qualified fabricator shall perform all cutting, welding, and joining as required.
- The structure shall be properly set out and levelled with the assistance of a qualified surveyor.
- Care shall be taken in loading, transporting, and offloading to prevent damage to the materials. No material shall be thrown, dropped, or dragged. All materials shall be examined before installation, and no piece shall be installed which is found to be defective. Any damage to materials shall be repaired as directed by the Engineer. If any defective material is discovered after it has been installed, it shall be removed and replaced in a satisfactory manner by the contractor, at his own expense.
- Care shall be taken during transportation of the materials such that it will not be dent, kinked or otherwise damaged.
- Mechanical connections from the structure to the base and within the structure shall be accordance to standards and specifications set out.
- All surfaces, connections points, and fasteners shall be thoroughly cleaned before installation, shall be kept clean until they are used in the work and when completed, shall conform to elevations, levels and dimensions required.



CLEANING

 At the conclusion of the work, thoroughly clean all components of the structure to remove all dirt, dust or any other material which may have been accumulated during construction. Debris cleaned from the structure shall be removed from the job site. The entire site should also be cleared and cleaned of all unwanted materials owned by the contractor.

TESTING

• All bolts should be torqued according to specifications.

D. Deliverables

- At minimum, the Contractor is to furnish the company with the following but not limited to:
 - Assemble and installation of all necessary components to complete the building as per drawings.
 - Provide the Client with as-built drawings as per completed works

E. Construction Constraints

- SIMOPS
- Confined workspace
- Working near fuel lines, water lines, fire foam lines and high voltage electrical lines and generator.
- Working near access road which facilitates heavy duty trucks, trailers, and other machineries



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F. Useful Information



Fig 1: Site overview of project location





Fig 2: Project area



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Fig 3: Northwestern view of proposed building



Fig 4: Northeastern view of proposed building



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Autodesk

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	NO.180, F TEL: 86–532–88 WEBSITE: www.lic	aier Road, Qir 966982 FAX: lajituan.com	agdao City, 266 86–532–88965571	, 3000, China.
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Connection nod of Tie bar & beam

Note:

1. Material is Q235-B;

2. The horizontal bracing <ZC*> is made of round steel Ø20 , galvanized:

3. The tie bar <XG*> is made of round pipe Ø76*2.5, and the rust removal grade reaches Sa2.5. Two coats of red oxide primer and two coats of medium gray alkyd topcoat are used, and the total paint film thickness is not less than 125um.

*LIDA GROUP Weifang Henglida Steel Structure Co., Ltd.

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CLIENT			
PROJECT	Gener	9	
DRAWING TITLE	Elevation	structural	Plan
PROJECT MANAGER	Martin	DESIGN NO.	DESIGN
MANAGER	Joe	SPECIALTY	BUILDING
DESIGN	HYH	DATE	2022.06.15
DESIGN NO.	HWBJ-220615-01	DRAWING NO.	03

 $\lfloor \uparrow *$ LT* \bigcirc Β 11078 4087 3220 3771 LT* WL* M12 galvanized<u>nuts</u> + gasket roof purlin(WL*) and batter brace (LT*) connection node (1)4490 4490 200 (2)(2)523 523 1160 XT CG , 4764 4764 1160 XT OG XT XI 110 3858 18858 $(\mathbf{3})$ 4487 4487 Connection nod of middle span WL* -(4) (4)5117 5117 5 -(5) 3220 3771 4087 11078 (\mathbf{A}) $\left[C \right]$ (B)Note: <u>Structural Plan</u> 1 1:100 1. Material is Q235-B;



 \bigcirc 11078 4087 3220 3771 1300 1300 <u>ل</u> CG XT CG XT CG X7 X X XT (1)LT LΤ LΤ ЦT 4490 \neg \triangleright -ЦT ΙT (2) \neg >CG XT CG XT XJ CG XT XT XT 4764 XT OG XT XT CG XT XT OG XT 8858 \neg ΙŤ LT LT 4487 \neg >ЦT ЦT ЦТ LT LT 4 XT CG XI LΤ LT LT LT 5117 ЦT LΤ LT IT 5 XT CG XT XT CG XT 3220 3771 4087 11078 (\mathbf{C}) (B)(A)(D)Structural Plan 2 1:100







Note:







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CLIENT				
PROJECT	Generator House			
DRAWING TITLE	control room partiton			
PROJECT MANAGER	Martin	DESIGN NO.	DESIGN	
MANAGER	Joe	SPECIALTY	BUILDING	
DESIGN	HYH	DATE	2022.06.15	
DESIGN NO.	HWBJ-220615-01	DRAWING NO.	07	





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	Component List					
no.	component no.		L (mm)	qty.	steel grade	
	GZ-1	H250X200X6X8	4270	1	Q355B	
	GZ-2	H250X200X6X8	4270	1	Q355B	
	GZ3	HN 100X50X5X7		1	Q355B	
Ξ	GZ-4	HN 100X50X5X7		1	Q355B	
	GL 1	H300X170X6X8	8344	1	Q355B	
	GL-2	H300X170X6X8	8344	1	Q355B	
	GL3	HN 100X50X5X7	2015	1	Q355B	
	GL-4	HN 100X50X5X7	2015	1	Q355B	

Legend

- High strength bolt
 erection bolt
- Permanent bolt
- bolt hole

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COMPANY STAMP

		LICENS	E STAMP
CLIENT			
PROJECT	Gener	ator House	è
DRAWING TITLE	GJ-	-1 frame	
PROJECT MANAGER	Martin	DESIGN NO.	DESIGN
MANAGER	Joe	SPECIALTY	BUILDING
DESIGN	НҮН	DATE	2022.06.15

DESIGN NO. HWBJ-220615-01 DRAWING NO. 08



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	Component List				
no.	component no.		L (mm)	qty.	steel grade
	GZ-1	H250X200X6X8	4270	1	Q355B
	GZ-2	H250X200X6X8	4270	1	Q355B
	GZ-3	HN 100X50X5X7		1	Q355B
Ļ,	GZ-4	HN 100X50X5X7		1	Q355B
	GZ-5	H250X200X6X8	2267	1	Q355B
	GL1		8344	1	Q355B
	GL-2	H300X170X6X8	13634	1	Q355B
	GL3	HN 100X50X5X7	2015	1	Q355B
	GL-4		2015	1	

Legend

- High strength bolt
 erection bolt
- Permanent bolt
- bolt hole

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CLIENT			
PROJECT	Gener	ator House)
DRAWING TITLE	GJ-	-2 frame	
PROJECT MANAGER	Martin	DESIGN NO.	DESIGN
MANAGER	Joe	SPECIALTY	BUILDING
DESIGN	НҮН	DATE	2022.06.15
DESIGN NO.	HWBJ-220615-01	DRAWING NO.	09



todesk Αu 2 M20*50

High-strength bolt



Wind resistant Column KFZ-* Description

1.Material: The steel is Q355-B, and E50xx welding rod is used.

2. The bolts not specified are 10.9sM24, and the bolt holes are ,26.

3. The components must be carefully derusted before installation and anti-corrosion treatment after welding, the same as the anti-corrosion method of the steel frame.

4. It should be set out and proofread first and then blanked for construction.

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CLIENT			
PROJECT	Gener	ator House)
DRAWING TITLE	KFZ-1		
PROJECT MANAGER	Martin	DESIGN NO.	DESIGN
MANAGER	Joe	SPECIALTY	BUILDING
DESIGN	НҮН	DATE	2022.06.15
DESIGN NO.	HWBJ-220615-01	DRAWING NO.	10
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MANAGER	Joe	SPECIALTY	BUILDING
PROJECT MANAGER	Martin	DESIGN NO.	DESIGN
DRAWING TITLE	catwal	k structuro	ונ
PROJECT	Gener	ator House	9
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