

# SHG GUYANA INVESTMENT INC.

Summary of Project presented to the EPA.

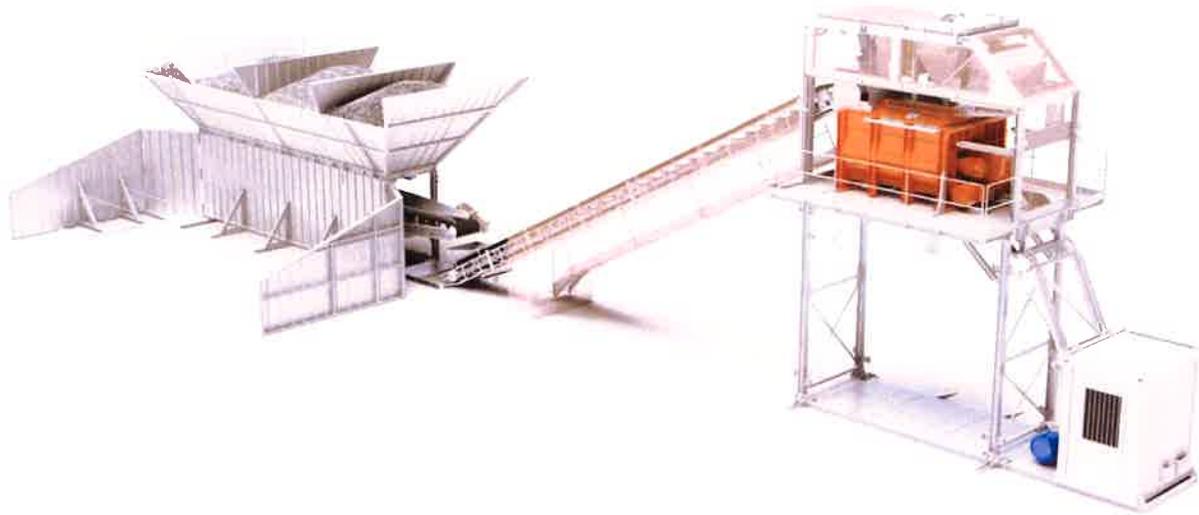


## Abstract

The establishment of a Cement Batching Plant

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**Proposal for the Installation and Operation of a Concrete Batching Plant in Guyana –  
Updated 4<sup>th</sup> January, 2021**



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### 1. SSHE

The company has a complete SSHE system in place for operation and all aspects of the delivery, installation and operation of the concrete batching plant shall be governed in accordance with the SSHE system. THINK SAFE BE SAFE!

### 2. SCOPE

This proposal sets out the company, personnel, equipment, schedule and methodology proposed, to install and operate a concrete batching plant in the country of Guyana.

### 3. COMPANY

The Company, U.S. Guyana Concrete and Supplies (USGC) was registered in Guyana on 21<sup>st</sup> December, 2020. U.S. Guyana Concrete is the premier provider of high quality, fully specification concrete in Guyana. With a new, state of the art concrete batching plant operated by expert batchers and three US standard reconditioned mixer trucks, US Guyana concrete will deliver solid, consistent results with every batch of concrete.

### 4. MANAGEMENT

#### Principal: **Siyad Abdulliha**

Siyad Abdullahi is the principal of U.S. Guyana Concrete. Mr. Abdullahi is a qualified medical doctor and American entrepreneur, with several successful businesses employing over 1000 people throughout the United States and Kenya, including a construction and concrete company in Nairobi.

- All senior management shall undergo initial and regular refresher SSHE training and shall always wear full PPE when active for USGC.

#### Batch Plant Operator: TBC

An experienced concrete batch plant operator is in the process of being recruited from Jamaica. The candidate has many years of experience with Pre-Mix, the premier concrete company in Jamaica.

- The Batching Plant Operator shall undergo initial and regular refresher SSHE training and shall always wear full PPE when active for USGC.

#### Mixer Truck Drivers: TBC

Truck drivers are to be recruited locally in Guyana.

Full evaluation and training will be mandatory for safe operation of the vehicle on the roads and safe, competent operation of the concrete mixing and delivery equipment mounted on the truck.

- All drivers shall undergo initial and regular refresher SSHE training and shall always wear full PPE when active for USGC.

## 5. SCHEDULE – See Appendix A

The key milestones are set out below:

1-Oct-20: Concrete batch plant ordered from manufacturer

23-Oct-20: Foundation drawings approved

30-Oct-20: Concrete mixer truck x 3 ordered

**1-Dec-20: Concrete mixer truck x 3 ship to Guyana**

**15-Dec-20: Concrete mixer truck x 3 arrive Guyana**

21-Dec-20: SEM655 wheeled front loader purchase initiated from ISG in Guyana

21-Dec-20: Concrete batching plant and silo manufacture complete (5 x 40' containers)

**Week ending 9-Jan-21: Concrete batching plant and silos ship to Guyana from port of Catania**

14-01-21: Start, concrete batching plant and silo foundations

5-Feb-21: Power and water connections to batching plant location

5-Feb-21: Set up batching plant yard, perimeter fence, office, place pre-cast foundations

**Week ending 6-Feb-21: Concrete batching plant and silos arrive in Georgetown, Guyana**

10-Feb-21: Start assembly of concrete batching plant and silos on foundation

28-Feb-21: Batching plant operator and mixer truck drivers start operation

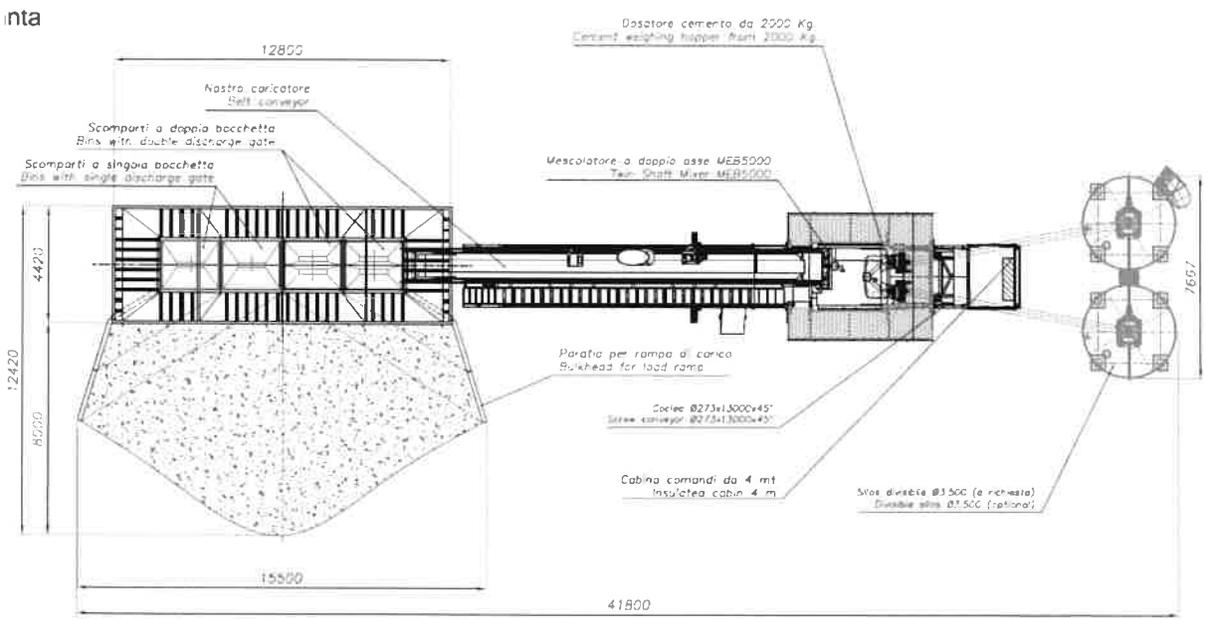
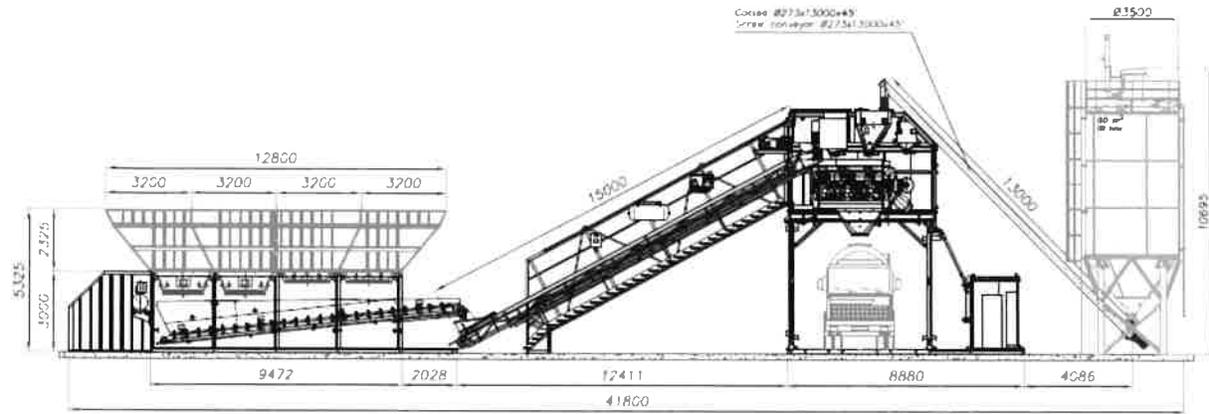
28-Feb-21: Complete assembly of concrete batching plant and silos

1-Mar-21: Commission concrete batching plant and test mixes

## 6. CONCRETE BATCH PLANT SPECIFICATIONS

The concrete batch plant is a Mobile Batching Plant, FIVETECH 3000B, manufactured by CIFA, with dimensions and specifications shown below:

### **FiveTech 3000B**



**Overview**

Mobile batching plant for the concrete wet production, equipped with twin shaft mixer. Theoretical hourly output 120 m³/h.

**Main features:**

- Minimal foundation works
- Possibility of moving the plant from one site to another
- Low maintenance costs
- Saving of space with integrated control cabin
- Pre-cabled and pre-assembled at the workshop
- Speed of assembling in site

- Easy and cheap transport

<b>Technical features</b>	<b>SI UNITS</b>	<b>US UNITS</b>
Theoretical hourly output	120* m <sup>3</sup> /h	157* yd <sup>3</sup> /h
Aggregate storage	65÷95 m <sup>3</sup>	85÷124 yd <sup>3</sup>
Aggregate storage bins	4 n°	4 n°
Discharge gates/Pneumatic cylinders	6/6 n°	6/6 n°
Aggregate weighing hopper	7 m <sup>3</sup>	9 yd <sup>3</sup>
Aggregate weighing system	10.000 kg	22,045 lb
Cement weighing hopper	2 m <sup>3</sup>	2.6 yd <sup>3</sup>
Cement weighing system	2000 kg	4,410 lb
Water weighing hopper	1000 L	264 gal
Extractor belt with sheet 1000 mm	600 m <sup>3</sup> /h	785 yd <sup>3</sup> /h
Loading belt with sheet 1000 mm	600 m <sup>3</sup> /h	785 yd <sup>3</sup> /h
Twin shaft mixer MEB	4500/3000	4500/3000
Air compressor	500 L	500 L
Operating voltage	400 V	400 V
Operating frequency	50/60 Hz	60 Hz
Absorbed electrical power**	308/230 HP/kW	308/230 HP/kW
Installed electrical power**	328/245 HP/kW	328/245 HP/kW

*\* mixing time 30"; unloading time 35" - \*\* basic version and for n.2 silos*

7. Foundations – See Appendix B

The batching plant and silo pad foundations are to be pre-cast off-site and transported and lifted into place by suitable lifting machinery on site.

The structural design check and slab dimension calculations shall be determined and signed off by Marcel Gaskin Associates in accordance with the location soil conditions.

8. Concrete Mixer trucks

U.S. Guyana Concrete is importing 3 no. US reconditioned concrete mixer trucks from Princeton, Texas, USA. The trucks have a 300 point inspection and full refurbishment.

2007 Mack CTP713, capacity 10.5cy

2008 Mack GU813, capacity 10.5cy

2009 Mack GU813, capacity 10.5cy

Mixer Truck Extras:

CBWM 10.5 YD Paving Mixer

NUMO UTI/UMI Repairs DOT Ready

PM - UTI - UMI

Southern Star Full Detail

State Inspection

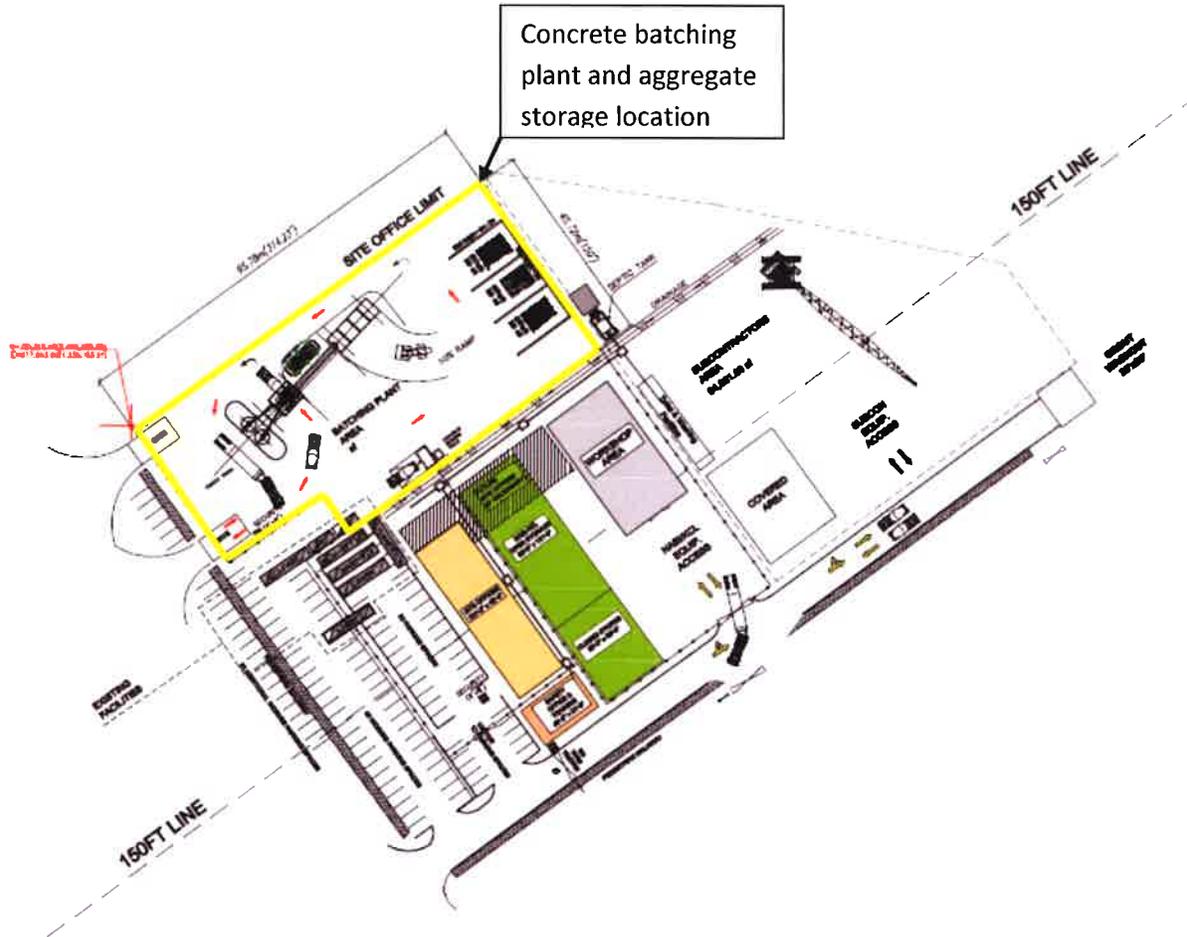
Weight Ticket

Blast & Paint w/Body Work

9. Location

The proposed location is at the Ogle construction site, as indicated on the plan view below. The layout shall be in accordance with the space allocated by Nabi-KCL. The perimeter shall be fenced with a chain link fence and two gates at the South side of the compound, for entry and exit from the existing roadway.

Plan view of the “5 acres” construction site at Ogle, showing the concrete batching plant layout.



10. Permissions

U.S. Guyana Concrete is in the process of obtaining the EPA permit for the location. Key steps completed are listed below:

EPA initial meeting held 23-Nov-20.

OAI issued the location permission letter on 31-Dec-20.

CHPA permission initiated 4-Jan-21.

Neighbourhood Democratic Council permission initiated 4-Jan-21.

EPA permit expected to be issued 29-Jan-21.

**11. Concrete Specifications**

All aggregates shall have chemical analysis and sieve test results available for submittal.

Water chemical analysis is available for submittal.

Admixture material data sheets shall be available for submittal.

All mix designs shall be batched in accordance with ACI and BSI concrete batching standards and a library of all mix designs maintained.

All batches produced shall have cube tests in accordance with ACI and BSI standards and a test record maintained.

**12. Material Suppliers and Specifications**

Cement: Rock Hard

Aggregates: Aracara Quarry

Water: GWI

Admixtures: Fosroc (supplied by SCL Guyana)

**13. Plant Operation**

The plant shall be operated in accordance with ACI and BSI standards.

The plant operation procedure manual shall be on site at all times and a copy shall be available upon request and for submittal.

**14. Pricing Schedule**

<b>US Guyana Concrete and Supplies Pricing Schedule Jan-21</b>			
Concrete Grade	Quantity (CY)	Rate USD/CY	Total USD
3500	500	186	93,000
4000	2860	189	540,540
6000	100	225	22,500
4000 (Lightweight)	3200	TBC*	
		<b>TOTAL</b>	<b>656,040</b>

\*Cost to be calculated closer to the required date.