

NATIONAL WORKS AGENCY
MAJOR INFRASTRUCTURE DEVELOPMENT PROGRAMME (MIDP)
MANDELA HIGHWAY IMPROVEMENT PROJECT

STATUS REPORT AS AT NOVEMBER 30, 2017

Contract Data

Project Location:	Mandela Highway, St. Catherine/St. Andrew
Funding Agency:	China Ex-Im Bank And Government Of Jamaica
Contract Amount:	US\$63,997,883.63
Contract Commencement Date:	August 17, 2016
Original Contract Completion Date:	August 17, 2018
Contract Period:	24 calendar months (730 calendar days)
Contractor:	China Harbour Engineering Company Limited

Scope of Works

The works involves, but not limited to, road construction works comprising extensive soft soil treatment, construction of 3.5km six lane corridor with a two lane overpass bridge, two new three lane bridges at Fresh River, a two lane service road adjacent to the main corridor to facilitate the development of Caymanas Estate and the upgrading of the Six Miles Interchange

Progress of Contract

A contract was signed on July 22, 2016 by the contractor, China Harbour Engineering Co. Ltd and the Government of Jamaica/ Ministry of Economic Growth and Job Creation.

A commencement letter was issued on August 12, 2016 to the contractor for the works to start on August 17, 2016.

The contract period is 24 calendar months.

Progress

Works Completed:

1. Road Works

- 203,242m cement mixing piles of 355,782m
- 495 trees on south side between stn K0+320 and stn K3+500
- JPS temporary poles planted on south side between stn K1+700 and stn K3+500
- JPS temporary poles planted on south side between stn K0+300 and stn K1+700
- JPS temporary poles planted north of Q ramp and across Nestle property
- Retaining wall on north side between stn K2+535 and stn K2+170
- Retaining wall on north side between stn K1+680 and stn K1+600
- 6 of 17 CSP storm water drainage system
- 10,183 cu.m. of 10,183 cu.m. of dredging and filling

- **Road Works** (Contd.)
- 104,124 cu. m. of 237,617 cu.m. of subgrade fill
- 28m box culvert at stn K1+020
- 22.5m box culvert at stn K0+700
- 14.5m box culvert at stn K0+300
- 20 cm thick temporary gravel base – 3,873 cu.m of 6,011 cu.m
- 40mm thick asphaltic concrete of temporary gravel base – 14,000 sq.m. of 34,105.sq.m.
- Top soil removal - 43,638 cu.m. of 45,444 cu.m.
- Abutment backfilling – 665 cu.m. of 829 cu.m
- Base grading gravel – 31,708 cu.m. of 133,486 cu,m
- Binder course ATB-25 – 16,349 sq.m of 119,463 sq.m
- Binder course AC-20 – 20371 sq.m of 134,825 sq.m.
- Concrete barrier – 754 m of 1441m
- 3000 psi rubble concrete wall – 3653 cu.m of 7923 cu.m.
- 50mm x 50mm vertical drain – 500m of 1580m

Bridge Works

1. Fresh River Bridge

- 12 of 12 pile foundation of abutment #0
- 12 of 12 pile foundation of abutment #2
- 6 of 6 pile foundation of pier #1
- 12 of 12 bearing platforms
- 2 of 2 abutment walls
- Pier # 1 scour protection
- 28# of 28# T-beams completed and launched
- Western approach slab – 100%
- Bearings -100%
- Bridge deck (north side) – 100%
- Guard rail (north side) -100%

2. Overpass Bridge

- 3 of 3 pile foundation of pier #1
- 6 of 6 pile foundation of abutment # 2
- 6 of 6 pile foundations of abutment #0
- Pile cap, stem wall and bearing platform of Pier #1
- Pile cap, body and bearing platform of abutment #2
- Ultrasonic tests to piles abutment #0 overpass bridge
- Pile cap, body and bearing platform of abutment #2
- Pile cap, body and bearing platform of abutment #0
- 10# of 10# T-beams completed and launched
- Bearings – 100%
- Bridge deck- 100%

Works in progress:

1. Road Works

- Sub grade fill on north side between stn K1+200 and stn K1+540
- Constructing 50mm x 50mm vertical drain between stn K2+100 and stn K2+160
- Constructing Jersey Barriers between stn K2+560 and stn K2+590
- Masonry drain between stn QK0+310 and stn. QK1+330

2. Fresh River Bridge

- Re-bar for diaphragm/wet joint – southern half

3. Overpass Bridge

- Concrete to barrier - east side
- Re-bar for sidewalk

Programme

The time elapsed is 62.5% of contract period. The percentage of work accomplished to date is approximately 74%.

Payment Certificates

Payment Certificate No.	Amount certified (US\$)	Date issued	Due date	Date paid
1	2,103,250.76			
2	1,051,625.38			
3	1,301,625.38			
4	2,750,387.60			
5	2,794,090.08			
6	4,798,341.27			
7	3,231,589.56			
8	5,087,232.56			
9	3,354,148.62			
10	3,205,408.38			
11	5,249,166.74			
12	1,564,118.75			
13	3,538,404.84			
14	2,596,546.65			
15	3,059,195.02			
16	1,010,030.00			
TOTAL	46,695,125.39			

Labour

Over the period under review the amount of persons on **Road Section** was 11 Chinese and 90 Jamaicans whilst at the **Fresh River Bridge & Overpass Bridge**, 18 Chinese and 27 Jamaican were engaged.

Continual communication is made with local political directorate and community leaders so that the labour situation is kept under control.

Traffic Management

There were a number of minor reported incident for the period under review mainly to do with vehicular crashes. No loss of life or loss of property resulted.

Quality Control

Cylinder/cube samples of concrete being used for bridge deck slab & guard rails for Fresh River Bridge & diaphragms for Overpass Bridge were being collected by CHEC for testing.

Tests results indicated that the concrete strengths are within the required specifications.

Compaction tests on sub-grade filling on roadworks were carried out as required.

Cylinder/cube samples of concrete being used at vertical drain and Jersey Barriers were being collected by CHEC for testing.

Tests results indicate that they are within the required specifications.

Health, Safety and Environment

There was no major outstanding health or environmental issues during the period. Monthly reports are prepared and submitted by CHEC on health and environmental matters. These reports are forwarded to NEPA as part of their permit requirements.

CHEC's Safety Officer continues to carry out regular tool box talks.

Outstanding matters:

1. Relocation of JPS poles near Duhaney sub-station.
2. Installation of HDPE sleeve at stn. K0+300 for NWC mains crossing.

Prepared by:

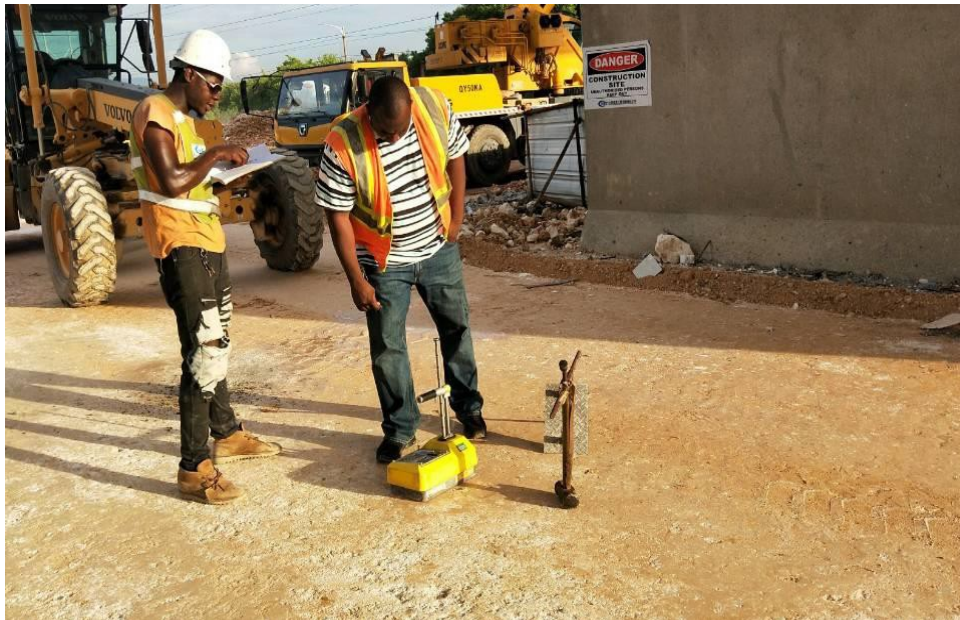
Lynval Ramdial
Resident Engineer

December 4, 2017

Pictures



New Jersey Barrier formwork



Field Density testing



JPS Streetlight pole foundation



Pouring concrete to wet joint – Fresh River Bridge