# INVESTMENT PROFILE FOR TURMERIC

APRIL 2019



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#### LIST OF ACRONYMS

COP - Cost of Production

FAO - Food and Agriculture Organization of the United Nations

GOJ - Government of Jamaica

ITC - International Trade Center

JMD - Jamaican Dollars

MICAF - Ministry of Industry, Commerce, Agriculture and Fisheries

STATIN - Statistical Institute of Jamaica

U.K. - United Kingdom

USA/U.S. - United States of America

USD - United States Dollars

# **Product Profile**

# Table 1: Product Profile for Turmeric

#### Turmeric





**Botanical Name and Origin:** The turmeric (Curcuma longa) has its origins in South East Asia.

**Species and Description:** It is an herb of the ginger family and like ginger has a thick, round rhizome with short "fingers". As many as 133 species of Curcuma have been identified worldwide.

#### Nutritional Value:

| Nutrient                 | Unit | 1Value per 100 g |
|--------------------------|------|------------------|
| Water                    | g    | 12.85            |
| Energy                   | kcal | 312              |
| Protein                  | g    | 9.68             |
| Total lipid (fat)        | g    | 3.25             |
| Carbohydrate, by         | g    | 67.14            |
| difference               |      |                  |
| Fiber, total dietary     | g    | 22.7             |
| Sugars, total            | g    | 3.21             |
| Calcium, Ca              | mg   | 168              |
| Iron, Fe                 | mg   | 55               |
| Magnesium, Mg            | mg   | 208              |
| Phosphorus, P            | mg   | 299              |
| Potassium, K             | mg   | 2080             |
| Sodium, Na               | mg   | 27               |
| Zinc, Zn                 | mg   | 4.5              |
| Vitamin C, total         | mg   | 0.7              |
| ascorbic acid            |      |                  |
| Thiamin                  | mg   | 0.058            |
| Riboflavin               | mg   | 0.15             |
| Niacin                   | mg   | 1.35             |
| Vitamin B-6              | mg   | 0.107            |
| Folate, DFE              | μg   | 20               |
| Vitamin B-12             | μg   | 0                |
| Vitamin A, RAE           | μg   | 0                |
| Vitamin A, IU            | IU   | 0                |
| Vitamin E (alpha-        | mg   | 4.43             |
| tocopherol)              |      |                  |
| Vitamin D (D2 + D3)      | μg   | 0                |
| Vitamin D                |      | IU               |
| Vitamin K                | μg   | 13.4             |
| (phylloquinone)          |      |                  |
| Fatty acids, total       | g    | 1.838            |
| saturated                |      |                  |
| Fatty acids, total       | g    | 0.449            |
| monounsaturated          |      |                  |
| Fatty acids, total       | g    | 0.756            |
| polyunsaturated          |      |                  |
| Fatty acids, total trans | g    | 0.056            |

Source: USDA 2019

Medicinal Uses: Turmeric may be used for the treatment of rheumatoid arthritis, conjunctivitis, urinary tract infections, and liver ailments (Dixit, Jain, and Joshi 1988). It is also used for digestive disorders; for abdominal pain and distension (Bundy et al. 2004).

By-Products: Before turmeric can be used, the turmeric rhizomes must be processed. Rhizomes are boiled or steamed to remove the raw odor, gelatinize the starch, and produce a more uniformly colored product. Turmeric is also used in manufactured food products such as canned beverages, dairy products, baked products, ice cream, yellow cakes, yogurt, orange juice, biscuits, popcorn, sweets, cake icings, cereals, sauces, and gelatins. It is a significant ingredient in most commercial curry powders.

# **Crop Production**

Cost of Production: A one acre turmeric farm is a highly viable proposition. The projected marketable yield for a one (1) acre turmeric farm is 8000kg. The farm-gate price for 1kg of Turmeric is estimated to cost \$88.00 JMD. A summary is given in table 2 below.

Table 2: Estimated Cost of Production for a one acre Turmeric Farm

| Item                     | Unit    | Quantity Rate/Unit |       | Total (\$) |  |  |  |  |
|--------------------------|---------|--------------------|-------|------------|--|--|--|--|
| Land Preparation         |         |                    |       |            |  |  |  |  |
| Land Cleaning            | man day | 5                  | 2000  | 10,000.00  |  |  |  |  |
| Ploughing                | acre    | 1                  | 9000  | 9,000.00   |  |  |  |  |
| Harrowing                | acre    | 1                  | 6000  | 6,000.00   |  |  |  |  |
| Furrowing                | acre    | 1                  | 5000  | 5,000.00   |  |  |  |  |
| Buildings and Structures |         |                    |       |            |  |  |  |  |
| Irrigation Equipment     | rolls   | 10                 | 20000 | 200,000.00 |  |  |  |  |

| Subtotal                        |             |              |      | 230,000.00 |
|---------------------------------|-------------|--------------|------|------------|
|                                 | Equipment : | and Material |      |            |
| Planting Material               | kg          | 1,000.00     | 77   | 77,000.00  |
| Fertilizer                      |             |              |      | 24,000.00  |
| Fungicide                       |             |              |      | 10,000.00  |
| Herbicide                       |             |              |      | 4,800.00   |
| Water                           | month       | 7            | 3000 | 21,000.00  |
| Subtotal                        |             |              |      | 136,800.00 |
|                                 | Wo          | orks         |      |            |
| Installing Irrigation equipment | man day     | 2.00         | 2000 | 4,000.00   |
| Prepare Planting Material       | man day     | 3.00         | 2000 | 6,000.00   |
| Planting                        | man day     | 10.00        | 2000 | 20,000.00  |
| Fertilizer Application          | man day     | 3.00         | 2000 | 6,000.00   |
| Weed Control                    | man day     | 24.00        | 2000 | 48,000.00  |
| Harvesting                      | man day     | 20.00        | 2000 | 40,000.00  |
| Subtotal                        |             |              |      | 124,000.00 |
| Total                           |             |              |      | 490,800.00 |

**Crop Maturity:** 7 months

Reaping Period: 2 months

**Project Viability:** Investment in the production and exportation of the Jamaican Turmeric is lucrative as supported by financial projections.

Gross Revenue: Under favourable conditions, investors can expect a gross revenue of \$704,000 JMD.

Net Income: Investors can expect a net income of \$213,200 JMD over a period of 1 year.

Return on Investment: Turmeric farming guarantees a ROI of 43.44%.

**Suitable Locations:** Suitable locations for commercial turmeric production are in the parishes of Hanover, Westmoreland, St. Elizabeth, St. James, Clarendon, St. Catherine, St. Mary and St. Thomas.

**Drainage:** It requires a well-drained soil with sufficient nutrient supply.

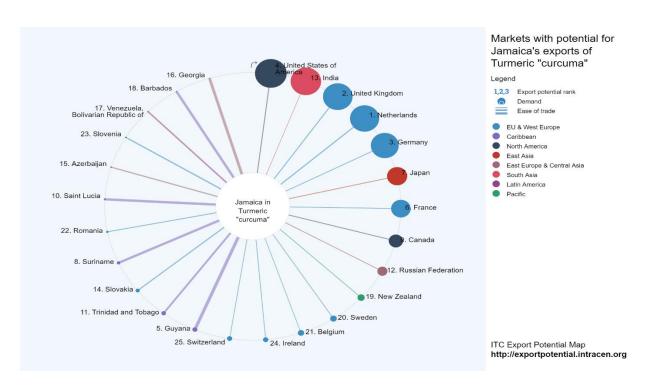
Harvesting Methods: Turmeric readiness for harvest is indicated by the drying of the plant and stem. The rhizome bunches should be carefully dug out by hand-picking, manually dug with a spade. It is recommended to first cut the leaves before lifting the rhizomes. Rhizomes are then cleaned by soaking in water. (FAO 2004).

# Market Opportunities and Challenges

**Export Potential:** Turmeric falls under the International Harmonised System code 091030, comprising of "Turmeric 'curcuma'". The total untapped export potential of Turmeric "curcuma" globally stands at US\$ 185.3 million.

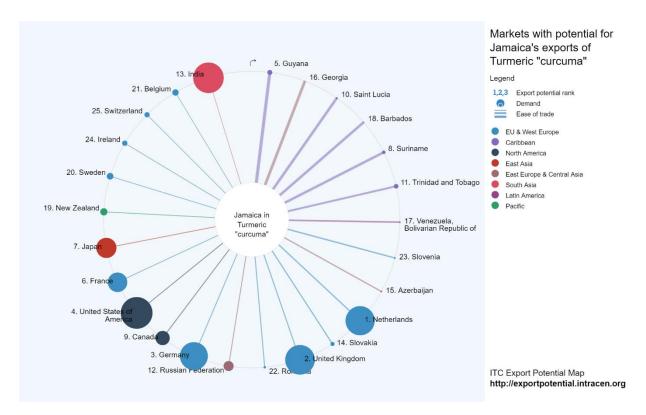
The markets with greatest potential for Jamaica's exports of Turmeric are the Netherlands, United Kingdom and Germany. Netherlands shows the largest absolute difference between potential and actual exports in value terms, leaving room to realize additional exports worth US\$ 159.7 k (See Figure 1).

Figure 1: Markets with the Greatest Potential for Jamaica's Exports of Turmeric



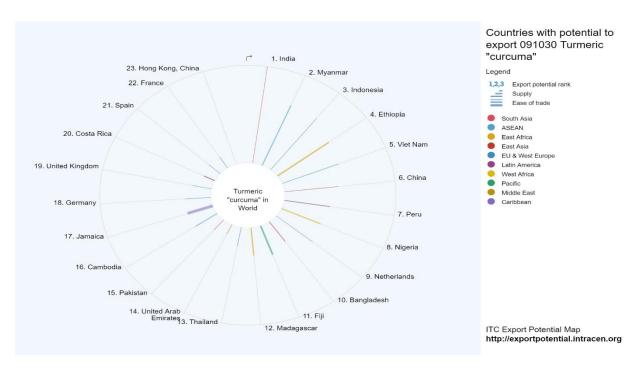
Source: ITC (2019)

Figure 2: Markets with the Greatest Ease of Trade for Jamaica's Exports of Turmeric Based on data from the ITC (2019), Jamaica has closest export links with Guyana based on the Treaty of Chaguaramas.



Source: ITC (2019)

Figure 3: Countries with potential to export Turmeric to the World



Source: ITC (2019)

The United States of America is the market with the highest demand potential for 091030 Turmeric "curcuma" worldwide. For investors to successfully take advantage of this market it requires several key components: pricing to remain competitive and profitable, good sales and marketing strategy, using attractive packaging similar other exporting countries and having a nearly all year-round presence in the market.

With the U.S. representing a potential share of 100% of Jamaica's exports of Turmeric, U.S. Imports of Turmeric, Investors would face rigorous competition from India as they are the biggest exporter of Turmeric to the U.S. representing US\$ 22 million (ITC 2019). Jamaica ranks number 17 with the greatest potential to supply turmeric in the world out of a total of 23 countries.

**Standards:** Turmeric must be produced and handled under the necessary sanitary and hygienic processes. These sanitary and phytosanitary measures therefore requires pest and disease free Turmeric. Investors must ensure that Turmeric produced are of the highest quality. While wild harvesting is acceptable in some markets, in most target markets, turmeric is cultivated under controlled conditions, which meet and satisfy international requirements.

In the U.S., weighed samples are usually passed through a sieve (U.S. Standard No 8 or 9) with a white paper underneath to observe foreign matter, insects and mammalian excreta. Rhizomes are then examined for mold and defiling insects. Foreign matter is reported by count (insects) or by weight (FAO 2004).

Table 3: Cleanliness Specifications for Turmeric

| Whole insects, dead | Excreta,<br>Mammalian | Excreta,<br>Other | Mold           | Insect<br>Defiled/Infested | Extraneous Foreign<br>Matter |
|---------------------|-----------------------|-------------------|----------------|----------------------------|------------------------------|
| by count            | by mg/kg              | by mg/kg %        | by weight<br>% | by weight %                | by weight                    |
| 3                   | 11.1                  | 11.1              | 3              | 2.5                        | 0.5                          |

<sup>\*</sup>extraneous matter includes but is not restricted to: stones, dirt, wire, string, stems, sticks, non-toxic foreign seeds, excreta, manure, and animal contamination

Source: FAO (2004)

#### Tariffs applied by United States of America:

Table 4: Tariffs applied by the U.S to Jamaica

| Product description | Tariff regime           | Applied tariff (as reported) | Applied tariff (converted) | Total ad<br>valorem<br>equivalent<br>tariff |
|---------------------|-------------------------|------------------------------|----------------------------|---|
| Turmeric (curcuma)  | MFN duties<br>(Applied) | 0                            | 0                          | 0   |

Source: ITC (MAcMap) 2018

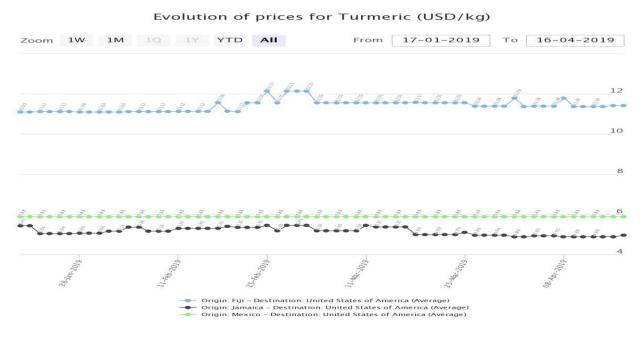
# Market Analysis

#### **Market Prices**

According to MICAF (2012), at 4% curcumin content, Jamaican turmeric is valued in the higher end of the turmeric trade and is particularly desired as a food additive and for curry manufacturing. In 2017, data from STATIN revealed that the average market price (export) for turmeric was sold at an average of 2.35 USD/kg with the lowest price being 1.46 USD/kg and highest at 4.28 USD/kg.

According to ITC (2019), the average retail price for turmeric in the U.S. is 7.42 USD/kg with the lowest price being 4.96 USD/kg and highest at 11.41 USD/kg.

Figure 4: Evolution of Prices for Turmeric



Source: ITC (2019)

#### **World Export Characteristics**

India, Vietnam and Indonesia accounted for over 80% of the world's export of Turmeric in 2018. Jamaica accounted for 0.6% of the world export of Turmeric.

Table 5: List of Top 14 Exporters of Turmeric in 2018

| Exporters                | Value exported in 2018 (USD thousand) | 018 (USD   exported in   Quantity   world |      |     | Concentration of importing countries | Ease of doing business ranking |
|--------------------------|---------------------------------------|---|------|-----|--------------------------------------|--------------------------------|
| World                    | 337,665                               | 172,796                                   | Tons | 100 | 0.09                                 |                                |
| India                    | 236,473                               | 122,151                                   | Tons | 70  | 0.12                                 | 77                             |
| Viet Nam                 | 23,391                                | 15,962                                    | Tons | 6.9 | 0.86                                 | 69                             |
| Indonesia                | 12,958                                | 9,541                                     | Tons | 3.8 | 0.68                                 | 73                             |
| Netherlands              | 8,966                                 | 2,873                                     | Tons | 2.7 | 0.11                                 | 36                             |
| Myanmar                  | 6,416                                 | 4,841                                     | Tons | 1.9 | 0.53                                 | 171                            |
| Ethiopia                 | 5,306                                 | 4,826                                     | Tons | 1.6 | 0.55                                 | 159                            |
| Germany                  | 5,008                                 | 1,157                                     | Tons | 1.5 | 0.08                                 | 24                             |
| United Kingdom           | 4,568                                 | 748                                       | Tons | 1.4 | 0.11                                 | 9                              |
| Peru                     | 3,142                                 | 1,510                                     | Tons | 0.9 | 0.21                                 | 68                             |
| United States of America | 2,849                                 | 509                                       | Tons | 0.8 | 0.27                                 | 8                              |
| China                    | 2,779                                 | 917                                       | Tons | 0.8 | 0.45                                 | 46                             |
| Fiji                     | 2,116                                 | 981                                       | Tons | 0.6 | 0.91                                 | 101                            |
| France                   | 2,061                                 | 291                                       | Tons | 0.6 | 0.18                                 | 32                             |
| Jamaica                  | 1,901                                 | 754                                       | Tons | 0.6 | 0.91                                 | 75                             |

Source: ITC (2019)

#### Jamaica Exports to the World

The total exports of Turmeric for 2017 was 1,023,426kg and was valued at US\$1,766,815 with the U.S. being the largest importer of Turmeric from Jamaica. (See Table 6). The U.S. imported US\$1,749,522 worth of turmeric.

<u>Table 6: Jamaica's Export of Turmeric in 2017 (Preliminary)</u>

| Kg    | J\$       | US\$   | Country            |
|-------|-----------|--------|--------------------|
| 9,227 | 1,878,272 | 14,683 | Canada             |
| 436   | 151,628   | 1,184  | Cayman Islands     |
| 7     | 3,888     | 30     | Dominican Republic |
| 954   | 178,197   | 1,395  | United Kingdom     |

| 1,012,802 | 224,154,031 | 1,749,522 | United States of America |
|-----------|-------------|-----------|--------------------------|
|-----------|-------------|-----------|--------------------------|

Source: STATIN (2017)

#### **World Import Characteristics**

The turmeric trade is relatively concentrated, with seven countries accounting for 52.1% of imports. Major importers of Turmeric are India, U.S., Iran, U.K. and Morocco. These importing countries represent 44% of the turmeric world trade. India imports most of the world turmeric 15% share (US\$44,417) in word imports with the U.S. accounting for 13% share (US\$37,964) of the world imports.

Table 7: List of Top 10 importers of Turmeric in 2018

| Importers                    | Value<br>imported<br>(USD<br>thousand) | Quantity<br>imported | Quantity<br>Unit | Share in<br>world<br>imports (%) | Concentration of supplying countries | Ease of<br>doing<br>business<br>ranking | Number of non-tariff<br>requirements applied<br>by the country |
|------------------------------|--|----------------------|------------------|----------------------------------|--------------------------------------|---|--|
| World                        | 298,686                                | 171,382              | Tons             | 100                              | 0.45                                 |   |  |
| India                        | 44,417                                 | 31,393               | Tons             | 14.9                             | 0.31                                 | 77                                      | 26   |
| United States<br>of America  | 37,964                                 | 9,655                | Tons             | 12.7                             | 0.52                                 | 8                                       |  |
| Iran, Islamic<br>Republic of | 22,034                                 | 18,563               | Tons             | 7.4                              | 1                                    | 128                                     |  |
| United<br>Kingdom            | 14,357                                 | 7,315                | Tons             | 4.8                              | 0.48                                 | 9                                       | 15   |
| Morocco                      | 12,894                                 | 9,723                | Tons             | 4.3                              | 0.94                                 | 60                                      | 16   |
| Germany                      | 12,212                                 | 4,530                | Tons             | 4.1                              | 0.4                                  | 24                                      | 15   |
| Malaysia                     | 11,694                                 | 7,962                | Tons             | 3.9                              | 0.76                                 | 15                                      |  |
| Japan                        | 9,383                                  | 4,143                | Tons             | 3.1                              | 0.58                                 | 39                                      | 13   |
| United Arab<br>Emirates      | 9,017                                  | 6,931                | Tons             | 3                                | 0.99                                 | 11                                      | 25   |
| Netherlands                  | 8,427                                  | 3,852                | Tons             | 2.8                              | 0.48                                 | 36                                      | 15   |

Source: ITC (2019)

Table 8 below shows the total turmeric imports for the period of 2017. The total imports for this period was 358,610kg. Jamaica's largest import partner of Turmeric was the U.S. totaling US\$749,796.

Table 8: Jamaica's Total Turmeric Imports in 2017

| kg      | J\$        | US\$    | Country  |
|---------|------------|---------|--|
| 5,204   | 2,648,768  | 20,702  | Canada   |
| 77,468  | 17,425,937 | 136,259 | China  |
| 50,000  | 10,533,278 | 81,170  | Hong Kong (Special Administrative Region of China) |
| 2,300   | 4,595,386  | 35,689  | India  |
| 223,638 | 60,895,020 | 475,976 | United States of America                           |

Source: STATIN (2017)

# USA Imports from World

In 2018, The U.S. imported 9,655 tons of turmeric across the world which amounted to US\$37,964. A majority of the U.S's imports of turmeric come from India at 70.5% while Jamaica supplies the U.S. with Turmeric at a share of 4.8%.

Table 9: List of Top 5 Countries that Exported turmeric to the U.S. in 2018

| Importers | Value imported in 2018 (USD thousand) | Share in United States of<br>America's imports (%) | Quantity imported in 2018 | Quantity unit |
|-----------|---------------------------------------|--|---------------------------|---------------|
| World     | 37,964                                | 100  | 9,655                     | Tons          |
| India     | 26,754                                | 70.5   | 7,088                     | Tons          |
| China     | 4,095                                 | 10.8   | 238                       | Tons          |
| Fiji      | 2,421                                 | 6.4  | 874                       | Tons          |
| Jamaica   | 1,815                                 | 4.8  | 741                       | Tons          |
| Indonesia | 614                                   | 1.6  | 197                       | Tons          |

Source: ITC (TradeMap) (2019)

# Financial Opportunities for Investment

Table 10: Financial Opportunities for Investment in Agriculture in Jamaica

| Provider                                    | Finance Type    | Amount Lower Limit | Amount Upper Limit | Currency |
|---|-----------------|--------------------|--------------------|----------|
| Development Bank Of                         | Grant           | Not Specified      | \$300,000.00       | USD      |
| Ja Ltd                                      |                 |                    |                    |          |
| Development Bank Of<br>Ja Ltd               | Loan Commercial | Not Specified      | Not Specified      | USD      |
| Development Bank Of<br>Ja Ltd               | Loan Commercial | Not Specified      | Not Specified      | USD      |
| First Global Bank Ltd                       | Loan Commercial | Not Specified      | Not Specified      | USD      |
| U W I Credit Union Co-<br>operative Society | Loan Commercial | Not Specified      | Not Specified      | USD      |
| Inter-American Dev<br>Bank                  | Equity          | Not Specified      | \$5,000,000.00     | USD      |
| Inter-American Dev<br>Bank                  | Loan Commercial | Not Specified      | \$5,000,000.00     | USD      |
| EXIM Bank                                   | Loan Commercial | \$8,455.22         | \$500,000.00       | USD      |
| St Catherine Co-Op<br>Credit Union Ltd      | Loan Commercial | Not Specified      | \$200,000.00       | USD      |
| Access Financial<br>Services Ltd            | Loan Commercial | Not Specified      | \$150,000.00       | USD      |
| Access Financial<br>Services Ltd            | Loan Commercial | \$30,000.00        | Not Specified      | USD      |
| Access Financial<br>Services Ltd            | Loan Commercial | \$10,000.00        | \$100,000.00       | USD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$15,000,000.00    | JMD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$15,000,000.00    | JMD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$5,000,000.00     | JMD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$500,000.00       | JMD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$5,000,000.00     | JMD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$2,500,000.00     | JMD      |
| Development Bank Of Ja Ltd                  | Loan Government | Not Specified      | \$5,000,000.00     | JMD      |
| Development Bank Of Ja Ltd                  | Grant           | Not Specified      | \$300,000.00       | JMD      |
| Development Bank Of<br>Ja Ltd               | Loan Government | \$50,000,000.00    | \$500,000,000.00   | JMD      |
| EXIM Bank                                   | Loan Government | Not Specified      | \$2,000,000.00     | JMD      |
| EXIM Bank                                   | Loan Government | Not Specified      | \$62,000.00        | JMD      |
| First Global Bank Ltd                       | Loan Commercial | Not Specified      | \$30,000,000.00    | JMD      |
| National Commercial<br>Bank Ja Ltd          | Loan Commercial | Not Specified      | \$30,000,000.00    | JMD      |
| National Commercial<br>Bank Ja Ltd          | Loan Commercial | Not Specified      | \$7,500,000.00     | JMD      |

| National Commercial    | Loan Commercial | Not Specified  | \$5,000,000.00 | JMD |
|------------------------|-----------------|----------------|----------------|-----|
| Bank Ja Ltd            |                 |                |                |     |
| JN Small Business      | Loan Commercial | Not Specified  | \$5,000,000.00 | JMD |
| Loans Ltd              |                 |                |                |     |
| JN Small Business      | Loan Commercial | \$30,000.00    | \$1,000,000.00 | JMD |
| Loans Ltd              |                 |                |                |     |
| JN Small Business      | Loan Commercial | Not Specified  | \$150,000.00   | JMD |
| Loans Ltd              |                 |                |                |     |
| JN Small Business      | Loan Commercial | \$30,000.00    | \$1,000,000.00 | JMD |
| Loans Ltd              |                 |                |                |     |
| JN Small Business      | Loan Commercial | \$1,000,000.00 | \$5,000,000.00 | JMD |
| Loans Ltd              |                 |                |                |     |
| Scotia Ja Microfinance | Loan Commercial | \$60,000.00    | Not Specified  | JMD |
| Co Ltd                 |                 |                |                |     |
| Access Financial       | Loan Commercial | Not Specified  | \$100,000.00   | JMD |
| Services Ltd           |                 |                |                |     |
| Access Financial       | Loan Commercial | \$100,000.00   | \$500,000.00   | JMD |
| Services Ltd           |                 |                |                |     |
| Access Financial       | Loan Commercial | \$500,000.00   | \$1,000,000.00 | JMD |
| Services Ltd           |                 | ·              |                |     |
| Access Financial       | Loan Commercial | Not Specified  | \$30,000.00    | JMD |
| Services Ltd           |                 |                |                |     |
| Bank Of Nova Scotia Ja | Loan Commercial | Not Specified  | \$500,000.00   | JMD |
| Ltd The                |                 |                |                |     |
| Bank Of Nova Scotia Ja | Loan Commercial | \$500,000.00   | \$5,000,000.00 | JMD |
| Ltd The                |                 |                |                |     |

# Contact our Investment Team today for more information on available Investment Opportunities!

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