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Appendix – 1

Questionnaire

Ref:

Data Collection Survey on Cinnamon Production Processing

General Information

.....
(2) Age

18 - 24

25 - 34

35 - 44

45 - 54

55 - 64

Over 65



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(3) Gender

(M) (F).....

(4) What is the highest level of formal education completed

- Primary education up to Grade 5 (.....)
- Up to Grade 8 (.....)
- Up to Grade 10 (.....)
- G.C.E. (O/L) (.....)
- G.C.E. (A/L) (.....)

Specify if any other

(5) Type of employment - (.....) Self employed (.....) Salaried

(6) Years of experience in the field of cinnamon peeling

Less than 2 years (.....) 2-5 years (....)

5 - 10 years (.....) Over 10 years (.....)

(7) Grades of cinnamon processed by the peeler - (.....) Alba and C5 special

(.....) C5, C4, M5, M4

(.....) H1, H2

Specify if any other.....

(8) Weekly working schedule –

a. (.....) 8 hours - 5 days

b. (.....) 8 hours - 6 days

c. (.....) 10 hours - 5 days per week

d. (.....) over 10 hours - 6 days per week

Specify if any other.....

(9) Average quantity produced per day - shift

quantity.....Kg



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Tools used in production

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(10) What are the tools used to process cinnamon?

.....

(11) Where the tools are stored?

Store room (...)

Open peeling area (...)

Other (...)

.....

(12) How the tools are being stored

In closed box or bag (...)

Wrapped with paper (...)

No covering (.....)

Other.....

If no cover used, why aren't the tools stored in a closed box/ bag with proper covering?

.....
.....

(13) How often the tools are being sanitized?

(.....) daily (.....) weekly (.....) monthly (.....) never

If not daily, what is the difficulty for not sanitizing daily?

.....
.....

(14) Method of cleaning the tools

Wipe with cloth only (....)

Washing with soap and water (....)

Clean with sanitizing detergent (....)

Specify if any other (.....)

If not using sanitization, what is the practical difficulty for not cleaning with sanitizing detergent?

.....
.....

Delivery of branches , storage and cleaning

(12) Method of cinnamon branches are delivered from the estate

By separate vehicle (....)

By common or rented vehicle (....)

Other.....

(13) Are the branches covered during delivery?

Yes(....)

No (....)

If no, what is the practical difficulty of not covering the branches while delivery?

.....

(14) Do you wash the cinnamon branches before peeling off?

Yes (....)

No (....)

If no, what is the practical difficulty of not washing the branches properly before peeling off?

.....

.....

(15) How often the water is being changed in the washing tank ?

daily (.....)

every other day(.....)

once a week (.....)

once in two weeks (.....)

once in three weeks (.....)

once a month (.....)



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if not daily, what is the practical difficulty of not changing the water in washing tank daily?

.....

.....

How often the water tank is cleaned and how is it cleaned?

.....

.....

(16) What is the source of water pumped into the washing tank?

Pipe line (....)

Well (....)

Other water source (.....)

(17) Any water purifying chemicals added to the water tank - (.....) Yes (.....) No

(18) If yes, what is the name of the chemical used –

.....

If no, what is the practical difficulty of not using water purifying chemicals the washing tank?

.....

(19) The method of filling up the cinnamon sticks after peeling-

.....

(20) The percentage of skin used to fill up the cinnamon sticks –

25% (....)

25-50% (....)

50% (....)

Any other percentage.....

(21) The methods of drying the cinnamon sticks

Open ground floor (....)
Closed room ('massa') (....)
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Other area, please specify.....

If drying on open ground, is there a method used for dust control? (.....)Y (.....)N

If no, what is the practical difficulty of not having a method for dust control?

.....

What is the practical difficulty of not drying the cinnamon sticks in a closed room where animals and insects such as cats, dogs, mice, cockroaches and flies have no access?

.....

(22) How the ventilation is facilitated to the drying area?

Naturally by windows or vents (..)

Electric fans (..)

Specify if any other methods.....

(23) Are the vents properly covered to avoid the entrance of animals and insects such as cats, dogs, mice, cockroaches and flies?

Yes (....) No (....)

If no, what is the practical difficulty of not covering vents?

.....

(24) Do you use pest control methods in the drying area?

Yes (....) No (....)

If yes, what is the method?

If no, If no, what is the practical difficulty of not using pest control methods?

.....

(25) The amount of sulfur versus cinnamon used in coloring cinnamon sticks –

.....

(26) Are you aware of the specified limit of sulfur to be added to cinnamon? (Y) .(N)

If no, why do you use less more than the specified limit?



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.....

Storage and packaging

(27) Where do you store dry cinnamon sticks?

Open ground area (....)

Closed area (....)

Other (... ..)

(28) Is storing area free from insects and animals such as cats, dogs, mice, cockroaches, flies, .?

Yes (....) No (....)

If no, what is the practical difficulty of not storing dry cinnamon sticks in a closed area where insects and animals such as cats, dogs, mice, cockroaches, flies, .cannot enter?

.....

(29) Where the packaging is done

On the floor (....)

On a common table (....)

On separate table (....)

Other (.....)

If not on a separate table, what is the practical difficulty of not of packing done on a separate table/ area?

.....

(30) How often the floor or the table is cleaned ?

Few times per day (....)

Daily (....)

Weekly (....)

If not daily, what is the practical difficulty of not cleaning daily?

.....



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(31) Whether the packing area is restricted to animals and insects such as cats, dogs, mice, cockroaches, flies, .? - (.....) Yes (.....) No

If yes, what is the difficulty of prohibiting the entrance of cats and dogs, flies, .?

.....

Personal hygiene

(32) Uniform to be worn at work -

(.....) cap (.....) mask (.....) slippers/ boots (.....) apron other.....

How often the uniforms are washed/ cleaned?

(.....) Regularly (.....)not very often (.....) rarely

If not regularly, what is the practical difficulty for not washing the uniforms regularly?

.....

If no uniform worn, the practical difficulty of wearing a uniform?

.....

(33) Do you chew Beatle leaves?

Yes (....) No (....)

If yes , how often.....

(34) Is there a separate place, container to spit close to working area?

(.....) Yes (.....) No

If no, what is the practical difficulty for not keeping a separate area container to spit?

.....

(35) Do you wash hands before peeling cinnamon sticks- (.....?) Yes (.....) No

If no, what is the practical difficulty for not washing hands before peeling cinnamon sticks?

.....

(36) Whether the facilities such as soap, wash basins have been provided at a convenient place –

(.....) Yes (.....) No

If no, what is the practical difficulty for not having such facilities in a convenient place?

.....

(37) Whether proper and clean toilet facilities are provided–

(.....) Yes (.....) No

If no, what is the practical difficulty for not providing proper facilities?

.....

(38) Whether the sanitation methods are provided after using the toilet -

(.....) Yes (.....) No

If no, what is the practical difficulty for not providing proper facilities?

.....

(39) Whether a separate room/ area is provided to have meals -

(.....) Yes (.....) No

If no, what is the practical difficulty for not providing proper facilities?

.....

(40) Whether the first-aid facility is provided -

(.....) Yes (.....) No

If no, what is the practical difficulty for not providing proper facilities?

.....

(41) Has anyone guided you about the cinnamon processing system?

(.....) Yes (.....) No

Describe the way you learnt about cinnamon processing system

.....

.....

(42) Are you aware of the consequences of the defected products being used by consumers?

(.....) Yes (.....) No

If yes, what are the consequences that you know?

.....

Do you know that the consumers add and use the processed cinnamon directly for eating?

(.....) Yes (.....) No

(43) Are you willing to practice good health habits mentioned below? Mark the following boxes.

- (.....) Using completed clean uniform
- (.....) Refrain from chewing Beatle at work
- (.....) Using sanitization methods
- (.....) Separate place to have meals

- (.....) Using proper toilet facilities and habits
- (.....) Using pest control methods(for packing materials and storage)
- (.....) Willingness to use the new cleaning methods to clean tools
- (.....) help and practice ways to restrict entrance of animals and insects such as cats, dogs, mice, cockroaches, flies,
- Specify if any other comments –

.....

(44) Are you aware , educated or trained regarding the importance of producing higher quality safe food products as a direct consumable food item?

(.....) Yes (.....) No

If yes how?

.....

(45) Willingness to have training session on hygienic methods in food manufacturing?



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(.....) Yes (.....) No

Appendix – II

Ref:

Interview Guide on Cinnamon Production Processing

General Information

Name:.....

(2) Age

(3) Gender (M) / (F)

(4) Highest level of formal education completed

(5) Years of experience in the field of cinnamon industry

Tools used in production

(6) How the tools are being stored

If no cover used, why are the tools stored in a closed box/bag with proper covering?



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.....

What is the best practice recommended?

.....

(7) How often the tools are being sanitized?

If not daily, what is the difficulty for not sanitizing daily?

.....

What is the best practice recommended for sanitize tools?

.....

(8) What is the method of cleaning the tools?

If not using sanitization, what is the practical difficulty for not cleaning with sanitizing detergent?

.....

What is the best practice recommended for cleaning tools?

.....

Delivery of branches , storage and cleaning

(9) Method of cinnamon branches are delivered from the estate

Are the branches covered during delivery?

If no, what is the practical difficulty of not covering the branches while delivery?

.....

What is the best practice recommended to cover and deliver the branches?

.....



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(11) Do you wash the cinnamon branches before peeling off?

If no, what is the practical difficulty of not washing the branches properly before peeling off?

.....

What is the best practice recommended to clean the branches (washing) before peeling?

.....

(12) How often the water is being changed in the washing tank ?

If not daily, what is the practical difficulty of not changing the water in washing tank daily?

.....

What is the best practice recommended?

.....

How often the water tank is cleaned and how is it cleaned?

.....

(13) What is the source of water pumped into the washing tank?

Any water purifying chemicals added to the water tank ?

If yes, what is the name of the chemical used?

.....

If no, what is the practical difficulty of not using water purifying chemicals to the washing tank?

.....

What is the best practice recommended for water purification?

.....

(14) The methods of drying the cinnamon sticks

If drying on open ground, is there a method used for dust control?

If no, what is the practical difficulty of not having a method for dust control?

.....

What is the best practice recommended for dust controlling?

.....

What is the practical difficulty of not drying the cinnamon sticks in a closed room where animals and insects such as cats, dogs, mice, cockroaches and flies have no access?

.....

What is the best practice recommended to restrict the entrance of above animals and insects?

.....

(15) How the ventilation is facilitated to the drying area?

(16) Are the vents properly covered to avoid the entrance of animals and insects such as cats, dogs, mice, cockroaches, flies?

If no, what is the practical difficulty of not covering vents?

.....

What is the best practice recommended to cover vents?

.....

(17) Do you use pest control methods in the drying area?

If yes, what is the method?.....

If no, what is the practical difficulty of not using pest control methods?

.....

What is the best practice recommended for pest controlling?

.....

(18) What is the amount of sulfur versus cinnamon used in coloring cinnamon sticks?



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(19) Are you aware of the specified limit of sulfur to be added to cinnamon?

If no, why do you use less/ more than the specified limit?

.....

What is the best practice recommended for regulating sulfur?

.....

Storage and packaging

(20) Where do the workers store dry cinnamon sticks?

(21) Is storing area free from insects and animals such as cats, dogs, mice, cockroaches, flies?

If no, what is the practical difficulty of not storing dry cinnamon sticks in a closed area where insects and animals such as cats, dogs, mice, cockroaches, flies cannot enter?

.....

What is the best practice recommended to prevent above animals and insects to enter?

.....

(22) Where the packaging is done

If not on a separate table, what is the practical difficulty of not of packing done on a separate table/ area?

.....

What is the best practice recommended for packing?

.....

(23) How often the floor or the table is cleaned?

If not daily, what is the practical difficulty of not cleaning daily?



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.....

What is the best practice recommended to clean?

.....

(24) Whether the packing area is restricted to animals and insects such as cats, dogs, mice, cockroaches, flies?

If yes, what is the difficulty of prohibiting the entrance of cats and dogs, flies?

.....

What is the best practice recommended to prevent above animals and insects in packing area?

.....

Personal hygiene

(25) Uniform to be worn at work by peelers

(.....) cap (.....) mask (.....) slippers/ boots (.....) apron other.....

How often the uniforms are washed/ cleaned?

If not regularly, what is the practical difficulty for not washing the uniforms regularly?

.....

What is the best practice recommended to wear clean uniforms?

.....

If no uniform worn, the practical difficulty of wearing a uniform?

.....

What is the best practice recommended to wear uniforms?

.....

(26) Do the workers chew Beatalle leaves?

Is there a separate place, container to spit close to working area?



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If no, what is the practical difficulty for not keeping a separate area /container to spit?

.....

What is the best practice recommended to address the above issue?

.....

(27) Do the workers wash hands before peeling cinnamon sticks

If no, what is the practical difficulty for not washing hands before peeling cinnamon sticks?

.....

What is the best practice recommended to wash hands before peeling?

.....

(28) Whether the facilities such as soap, wash basins have been provided at a convenient place

If no, what is the practical difficulty for not having such facilities in a convenient place?

.....

What is the best practice recommended?

.....

(29) Whether proper and clean toilet facilities are provided

If no, what is the practical difficulty for not providing proper facilities?

.....

What is the best practice recommended to provide clean toilet facilities?

.....

(30) Whether the sanitation methods are provided after using the toilet

If no, what is the practical difficulty for not providing proper facilities?

.....

What is the best practice recommended?



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.....

(31) Whether a separate room/ area is provided to have meals

If no, what is the practical difficulty for not providing proper facilities?

.....

What is the best practice recommended to address the above issue?

.....

(32) Whether the first-aid facility is provided

If no, what is the practical difficulty for not providing proper facilities?

.....

What is the best practice recommended?

.....

(33) Are you aware of the consequences of the defected products being used by consumers?

If yes, what are the consequences that you know?

.....

Do you know that the consumers add and use the processed cinnamon directly for eating?

(34) Are you willing to practice good health habits mentioned below in the centers?

- (.....) Using completed clean uniform
- (.....) Refrain from chewing Beatle at work
- (.....) Using sanitization methods
- (.....) Separate place to have meals
- (.....) Using proper toilet facilities and habits
- (.....) Using pest control methods (for packing materials and storage)
- (.....) Willingness to use the new cleaning methods to clean tools
- (.....) Help and practice ways to restrict entrance of animals and insects such as cats, dogs, mice, cockroaches, flies,
- Specify if any other comments –

.....

(35) Are you aware , educated or trained regarding the importance of producing higher quality safe food products as a direct consumable food item?

If yes how?

.....

(36) Willingness to have training session on hygienic methods in food manufacturing?

.....