

Appendix 1: Questionnaire

QUESTIONNAIRE SURVEY

Dear sir / madam,

Thank you for taking the time to complete the following survey. The purpose of this survey is to gain valuable insight of the factors affecting to technological issues in the dairy processing sector of Sri Lanka.

This questionnaire includes 2 sections. Section - A is to collect actual survey feedbacks. Section - B is supposed to collect general information about you and your enterprise. Your survey responses will be strictly confidential and data from this research will be reported only in the aggregate manner without individualizing and this study is entirely for academic purposes.

I sincerely request you to pay several minutes from your busy schedule to respond this Questionnaire.

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INSTRUCTIONS:

Please read each question carefully. Your answers are completely confidential and will be included only in summaries where individual answers cannot be identified. Unless otherwise instructed, please check the box that corresponds to the answer category that best describes you and your situation or your opinion. It will take approximately 20-25 minutes to complete this questionnaire.

Section A - Factors affecting to technological issues in the dairy processing industry

Select the best suitable answer and mark "X" in the relevant box .

Abbreviations:					
SA	:	Strongly Agree	D	:	Disagree
A	:	Agree	SD	:	Strongly Disagree
UD	:	Undecided			

Q #	Description	Response				
		SA	A	U	D	SD
National R&D and academic system						
1	Your company is allowed to use university and other technical institutions R&D centres.					
2	Your company has created commercialized products by sharing university R&D inventions.					
3	University academic staff/students seek your company dairy professional's assistance in their research and R&D work.					
4	Your company has taken consultancy service from university/ higher education academy.					
5	Dairy technology is available in university / higher education academy curriculum.					
Economic development strategies						
6	Country economic condition has an impact on technology improvement of your dairy industry.					
7	Establishment of government subsidiaries to					

	industry has given assistance to upgrade the technology of your company.					
8	Reduction of import duties on machinery has given opportunity to improve the technology of your company.					
9	Reduction of import duties on machinery has given training institutes to buy new technology.					
10	Promoting dairy based foreign direct investment has given more competitive technologies to industry.					
Infrastructure management						
11	Electricity service has been uninterrupted and has positive impact on technology of your company.					
12	Your industry has the access to good quality water throughout the year.					
13	Road condition around milk collecting facilities is not increasing milk transportation time to the factory.					
14	Transportation vehicle condition is not increasing milk transportation time to the factory.					
Human Capital						
15	Higher management of your company has a sound educational background in technology.					
16	Shop floor workers have basic education level to understand the technology of the industry.					
17	Expertise people in dairy technology are retaining in the company.					
Local management practices						
18	Company management is interested in continuous improvement of processes in your company.					
19	The company is giving internal or external training programs related to technology to upgrade knowledge of people.					
R&D system in company						
20	The company has a R&D system.					
21	The company has launched new products or improve processes through R&D system.					
22	Company's budget allocation on R&D is enough to carry out its work.					

Financial capital						
23	Banks are not giving financial loans under reduced rates to your company.					
24	Your company is not having capital which can be invested in technology improvement.					
Seasonal effects in milk						
25	Seasonal variation in fat and SNF in milk gives processing issues at the plant level.					
Dairy industry clustering						
26	There is a dairy processors association with industry.					
27	If there is a cluster of dairy processors it will help to demand technology related facilities from government and other relevant parties					
Machinery availability by country						
28	Locally manufactured machinery and equipment are available in the country.					
29	Locally fabricated machinery meets the quality standards of the dairy industry.					
Technology issues in dairy processing industry						
30	Productivity of the production process is within satisfactory range.					
31	Energy utilization per milk KG is within satisfactory range.					
32	Quality and food safety system is available in your company.					
33	Quality certification (ISO, HACCP) is available in your company.					
34	Effluent treatment facility is available in your company.					
35	Your plant is fully automated plant.					

Section B - Background information

Tick on most suitable answer for your industry.

36) Main dairy products of your company

- | | | | |
|----------------|--------------------------|-------------------------|--------------------------|
| a) Curd | <input type="checkbox"/> | b) Yoghurt / Ice cream | <input type="checkbox"/> |
| c) Milk Powder | <input type="checkbox"/> | d) Liquid milk products | <input type="checkbox"/> |

37) Type of your business

- | | | | |
|--------------------------|--------------------------|-------------------------------|--------------------------|
| a) Family owned | <input type="checkbox"/> | b) Sri Lankan private Company | <input type="checkbox"/> |
| c) Multinational company | <input type="checkbox"/> | d) Government owned company | <input type="checkbox"/> |

38) Daily average milk intake for processing

- | | | | |
|---------------------|--------------------------|--------------------|--------------------------|
| a) Less than 500 L | <input type="checkbox"/> | b) 500 – 5000 L | <input type="checkbox"/> |
| c) 5000 – 100,000 L | <input type="checkbox"/> | d) Above 100,000 L | <input type="checkbox"/> |

39) No of employees in company

- | | | | |
|--------------------------|--------------------------|------------------|--------------------------|
| a) Me and my spouse only | <input type="checkbox"/> | b) 0 -10 people | <input type="checkbox"/> |
| c) More than 100 | <input type="checkbox"/> | d) More than 300 | <input type="checkbox"/> |

40) Period your company have been engaged in Dairy industry

- | | | | |
|----------------------|--------------------------|----------------------|--------------------------|
| a) Less than 5 years | <input type="checkbox"/> | b) 5-10 years | <input type="checkbox"/> |
| c) 10 - 20 years | <input type="checkbox"/> | d) More than 20 year | <input type="checkbox"/> |

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