

FOOD SAFETY AND PRODUCT QUALITY ISSUES FACING THE DAIRY SECTOR IN MYANMAR

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MYANMAR NEW ZEALAND DAIRY EXCELLENCE PROJECT

Background to Project

OBJECTIVE: To establish a Profitable and Competitive Myanmar Dairy Industry, Providing Quality Livelihoods for Farmers and Safe Food for Consumers

- Established by Memorandum of Understanding between Government of New Zealand and the Government of Myanmar Ministry of Livestock, Fisheries and Rural Development July 2013 to be implemented through LBVD
- First Consultants in Myanmar March 2014
- Forages first established May 2014
- CTA appointed and in country October 2014
- Programme will be Implemented in two phases over five years – February 2016 marked the end of Phase I
- By the end of Phase II ambition is to have benefited more than **5,000 farmers** through trained LBVD and private sector extension agents, and through farmer to farmer networks established with the Programme.

Six Challenges for **Food Safety** that are not being addressed

- Production systems and herd management
- On-Farm Hygiene and milking practices
- Transportation of fresh milk
- Processing methods, equipment and knowledge of hygiene
- Testing facilities and centralised competent laboratory and testing regime
- Retail systems and cold chain management

Typical production conditions.



On Farm Hygiene



Transportation Issues – no refrigeration



Processing – maintenance and hygiene. Milk Sampling and testing











Xx Result Sheet

Sample Date: 22.9.2016

Plated Date 22.9.2016

Sample	MFD. Date	Exp. Date	Coli				Y/M			SCC	CMT			
			10 ⁻⁴	10 ⁻⁵	cfu/ml	10 ⁻²	10 ⁻³	10 ⁻⁴	cfu/ml			10 ⁻²	10 ⁻³	cfu/ml
A1	18.9.2016		18	9	540,000		428	4	428,000				417,000	0
			Acceptable		500,000	Acceptable			5,000				400,000	
	Yogurt													
D 1	20.9.2016					85	8		8500	8000	960	960,000		
			Acceptable		10,000	Acceptable			100	Acceptable		100		

Received Date and Time: 22.9.2016 1:00pm

Received Temperature: 0° C

Xx (Meikhtilar) Farm Result

Sample Date: 22.9.2016

Plated Date: 22.9.2016

	MDF Date	EXP Date	SPC			Coliform			CMT	SCC
			10^{-4}	10^{-5}	cfu/ml	10^{-3}	10^{-4}	cfu/ml		
	Raw Milk									
A1	Taw Ma 1		68	7	680,000	68	5	68,000	3	3,191,000
A2	Taw Ma 2		71	5	710,000	52	2	52,000	0	192,000
A3	Taw Ma 3		0	0	0	1	0	1,000	2	915,000
A4	Taw Ma 4		1	0	10,000	4	0	4,000	0	87,000
			Acceptable		500,000	Acceptable		5,000		400,000

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Received Temperature: 0°C