

### र्श्वसद्दवमधर्म्य भूव विमा

# वयुगर्भे दुअद्द च कश्येक्ष भेद्रे द्वर वहें द

### मिग्रिट्श चक्ष वह वर्षे देशेर कर।

Royal Government of Bhutan

Ministry of Agriculture and Forests

Bhutan Agriculture and Food Regulatory Authority (BAFRA)

National Food Testing Laboratory



Quarterly Progress Report:

October - December 2015

National Food Testing Laboratory (NFTL), BAFRA,

MoAF, Yusipang

### Background:

This Report provides the instant information on the types of food samples and the total number of samples tested at NFTL, BAFRA, Yusipang on quarterly basis i.e., from *October 1*, 2015 – *December 31*, 2015.

The food and water samples had been received from various BAFRA field offices, food business operators and Government agencies for testing to serve their intended purposes. The samples have been tested through application of internationally adopted/validated methods of analysis such as FAO, WHO, AOAC, APHA, BAM, IS etc. The quality of our test reports issued are ensured through implementation of ISO/IEC 17025:2005 (General Requirements for the Competence of Testing and Calibration Laboratories) for both microbiological and chemical parameters.

The samples are tested for the following test parameters at NFTL; depending on the types of samples being received:

- Microbiology: Aerobic Plate Count, Yeast & Mould Count, Coli form Count by MPN and E coli by MPN.
- Chemistry: Total Soluble Solids (TSS), Acidity, Moisture, Ash, Acid Insoluble Ash, Fat Content, Acidity of Extracted Fat, Protein, Dry Matter Content, Total Ash, Water Soluble Ash, pH, Acidity, Total Dissolved Solids (TDS), Alkalinity, Total Hardness, Lead (as Pb), Cadmium (as Cd), Zinc (as Zn), Refractive Index, Peroxide Value and Acid Value.

## I. Food Microbiology Section:

Sl. No.	Types of food commodities	No. of S	Total		
NO.		October	November	December	
1.	Raw/packaged drinking	7	3	5	15



## स्रवित्र देत्र विश्व क्रिया मित्रा विश्व विश्व

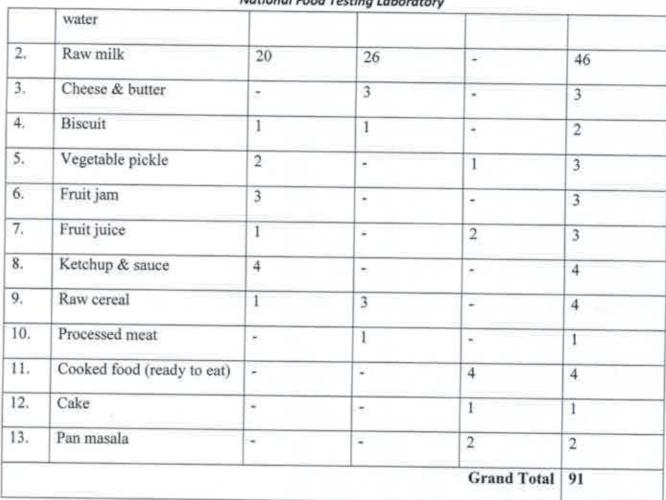
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# कुरा मेंद्रशास कथा यह वा द धरावर

# Royal Government of Bhutan Ministry of Agriculture and Forests



# National Food Testing Laboratory



# II. Food Chemistry Section:

SI. No.	Types of food commodities	No. of San	Total		
		October	November	December	
1.	Raw/packaged drinking water	7	2	6	15
2.	Processed Milk	1	1		2



## र्वे बहार स्वयाम ह्या भूव विया

## वस्यार्थे दश्य दश्य करणीय वर्षे द्रवस वर्षे द

## मैग्राहर सं मध्य पर्य पर्वे । यह

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3.	Biscuit	1	1	(*)	2
	Discur			1.50	2
4.	Vegetable pickle	3	1	1	5
5,	Fruit jam	3	19	72-1	3
6.	Fruit juice	<u>.</u>	Ē	2	2
7.	Ketchup & sauce	4	*	-	4
8.	Raw cereal	1	3		4
9.	Honey	1	1		2
10.	Oil	1	2	*	3
11.	Tea	1	1	3	2
_				Grand Total:	44

# III. Training:

In collaboration with the Federation of Indian Chambers of Commerce and Industries (FICCI), GOI, the laboratory officials were trained (from 23<sup>rd</sup> – 27<sup>th</sup> November 2015) on "Estimation of Measurement Uncertainty in Test and Calibration" and "Assuring Quality of Test and Calibration Results". As per the Clause 5.9 of ISO/IEC 17025 for accreditation, the laboratory shall have quality control procedures for monitoring the validity of tests and calibrations undertaken and such training are required to maintain quality result.