

National Milk Safety & Quality Survey, 2018

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FOOD SAFETY AND STANDARDS
AUTHORITY OF INDIA

Inspiring Trust, Assuring Safe & Nutritious Food

Ministry of Health and Family Welfare, Government of India



National Milk Safety & Quality Survey, 2018



PREFACE

Food Safety and Standards Authority of India (FSSAI) carried out a survey on safety and quality of liquid milk from May 2018 to October 2018 covering all States and UTs. In this survey, a total of 6,432 samples of raw and processed milk were collected from 1,103 towns/cities with population above 50,000.

The survey has shown that 12 out of 6,432 samples of milk were adulterated that render such milk unsafe for human consumption. This dispels the myth that milk in India is largely adulterated. A major finding in the survey was presence of aflatoxin M1 residues beyond permissible limits in 368 (out of 6,432) samples, that is 5.7 % of the samples. This is the first time that presence of Aflatoxin M1 in milk has been assessed. Aflatoxin M1 comes in the milk through feed and fodder, which are currently not regulated in the country. The survey further showed that 77 (out of 6,432) samples, that 1.2 % of the samples had residues of antibiotics above the permissible limits. Only one raw milk sample was found to contain pesticide residue above the permissible level.

Overall, above 93% of the samples that is 5976 out of 6,432 samples were found to be absolutely safe for human consumption. This is undoubtedly good news for consumers. The survey has shown that about 41% samples, though safe, fall short of one or another quality parameter or standard. Both raw and processed milk samples have failed on account of low fat or low SNF (solids not fat). Such non-compliance in raw milk could be either be due to quality of feed and rearing practices or due to dilution of milk with water, but such non-compliance in standardized and processed milk is surprising.

Further processed milk was found to have maltodextrin and sugar. These are not unsafe but are added to raise the level of fat and SNF of milk. This is not acceptable. The survey did not find any non-compliance on account of other parameters viz. cellulose, glucose, starch and vegetable oil.

This is first time that quantitative analysis of samples that failed on account of adulterants and contaminants was done. It is seen that overall levels of adulterants and contaminants in failed samples is not high, and thus unlikely to pose serious threat to human health. It can be concluded from the survey that the problem of adulteration and unsafe milk exists, but it is confined to certain locations and in peak season. The survey has helped in identification of hot spots, so that more intensified efforts for surveillance and enforcement could be taken up in such areas.

The interim report was published in November, 2018. The report was finalized after detailed discussions with stakeholders. It was discussed and accepted in a meeting of stakeholders held on September 9, 2019.

FSSAI is happy to publish the final survey report and hopes that this would provide baseline data for all dairy stakeholders including milk processors, researchers and regulators to ensure safety and quality of milk in India is improved and all kinds of myths around milk safety are addressed effectively.

18th October, 2019
New Delhi

Pawan Agarwal
CEO, FSSAI

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Executive Summary

In the backdrop of the perception that milk in India is largely adulterated, Food Safety and Standards Authority of India (FSSAI) carried out a survey on safety and quality of liquid milk in the country, referred to as 'National Milk Safety and Quality Survey 2018'. This Survey was carried out from May 2018 to October 2018 covering all States and UTs.

A total of 6,432 samples of milk were collected from 1,103 towns/cities with population above 50,000. Samples were collected both from the organized (retailers and processors) as well as non-organized (local dairy farms, milk vendors and milk *mandis*) sectors. Number of samples collected was linked to population at the sampling locations and covered raw milk as well as various types of processed milk. The survey results demolish the perception of large scale adulteration of milk in the country.

While, all samples collected were uniformly tested on the spot for critical parameters of quality and safety. The samples found to have any contaminants and adulterants were subjected to confirmatory analysis using high-end equipment and employing established testing protocols by proficient analysts in NABL accredited and FSSAI recognized laboratories. The survey was carried out by an independent third party agency. It is first-of-its kind extensive self-designed, representative and most comprehensive survey of safety and quality of liquid milk so far.

Earlier, FSSAI had carried out milk surveys in 2011 and 2016 with sample size of 1791 and 1663 respectively. Even though these surveys were informative, but these were inadequate as no clear picture emerged from these surveys due to small sample size and testing done by different laboratories that did not follow uniform protocol. Moreover, only qualitatively analysis was done and required safety parameters were not covered in the survey.

The survey has shown that 12 out of 6,432 samples of milk were adulterated that render such milk unsafe for human consumption. Six samples were found adulterated with hydrogen peroxide, three with detergents, two with urea and one sample was found to have neutralizers. No samples were found with boric acid and nitrates, the other two possible adulterants. Out of 12 adulterated samples, nine were in Telangana, two from Madhya Pradesh and one from Kerala. While, this is a concern, but is far from the common perception that liquid milk in the country is largely adulterated.

A major finding in the survey was presence of aflatoxin M1 residues beyond permissible limits in 368 (out of 6,432) samples, that is 5.7% of the samples. This is the first time that presence of aflatoxin M1 in milk has been assessed. Aflatoxin M1 comes in the milk through feed and fodder, which are currently not regulated in the country. Amongst the top three States with highest levels of aflatoxin M1 residues are Tamil Nadu (88 out of 551 samples), Delhi (38 out of 262 samples) and Kerala (37 out of 187 samples). This problem is more dominant in processed milk rather the raw milk.

The survey further showed that 77 (out of 6,432) samples, that 1.2 % of the samples had residues of antibiotics above the permissible limits. Amongst the top three States with highest levels of aflatoxin M1 residues are Madhya Pradesh (23 out of 335 samples), Maharashtra (9 out of 678 samples) and UP (8 out of 729 samples). Only one raw milk sample in Kerala was found to contain pesticide residue above the permissible level.

For the first time, a quantitative analysis of all samples that failed on account of adulterants and contaminants has been done. This analysis has shown that level of adulterants and contaminants in failed samples is not high, and unlikely to pose serious threat to human health. The survey has also helped in identification of hot spots, so that more intensified efforts for surveillance and enforcement could be taken up in such areas.

Overall, above 93% of the samples that is 5976 out of 6,432 samples were found to be absolutely safe for human consumption. This is undoubtedly good news for the Indian consumers.

The survey has shown that about 41% samples, though safe, fall short of one or another quality parameter or standard. There is non-compliance on account of low fat or low SNF (solids not fat), two key quality parameters both in raw and processed milk. In raw milk, proportion of fat and solids not fat (SNF) varies widely by species and depends on breed as well as quality of feed and fodder. Cattle must be properly fed and good farm practices must be adopted to improve the amount of fat and SNF in milk. Thus, low fat and SNF for these reasons or due to dilution of milk with water is understood. Non-compliance on account of fat and SNF in standardized and processed milk is however surprising.

Presence of maltodextrin in 156 (out of 6432) samples and sugar in 78 (out of 6432) samples mainly confined to processed milk was yet another surprise from this survey.

Maltodextrin and sugar are not unsafe but are sometimes added to raise the level of fat and SNF of milk. While, these do not represent threat to human health, nevertheless, these incidences are preventable and stringent action is required to curb them. The survey did not find any non-compliance on account of other parameters viz. cellulose, glucose, starch and vegetable oil was not found in the collected samples.

The interim report was published in November, 2018. The report was finalized after detailed discussions with stakeholders. It was discussed and accepted in a meeting of stakeholders held on September 9, 2019. This group of stakeholders was of the view that while incidents of adulteration cannot be ruled out, but these are restricted to few areas and in times when there is large demand-supply gap. Such incidents can only be tackled by having strict vigil in such areas.

The stakeholders' group further deliberated on presence of ammonium sulphate in milk. After careful review of scientific opinion, the group reached a conclusion that ammonium sulphate is coming into the milk naturally and is absolutely safe and not a contaminant as earlier thought. It was noted that ammonium sulphate is allowed as an additive in certain foods in several countries.

The outcome of the survey is a myth buster. The survey results indicate clearly that milk being sold in India is largely safe for consumption. This is contrary to the popular perception carried by the consumers owing to misrepresented information for various reasons including deceitful campaigns and unsubstantiated reports. This misrepresented information also engulfed the true results of previous two experimental surveys by the FSSAI that resulted in avoidable and disproportionate scare in the minds of the Indian consumers.

It is however imperative that the milk safety and quality are maintained. In general, milk safety relates to freedom of milk from adverse effects on human health upon consumption and milk quality is the sum total of desirable quality attributes of milk. Despite most sincere efforts, there remains a possibility that certain contaminant(s) (undesirable substances not intentionally added but unavoidably present owing to environmental contamination or food production and handling practices) and/or adulterant(s) (substance not legally allowed but added to food by unscrupulous elements for undue profits) find their way into milk. This may sometimes result in milk quality and/or safety issues. The desired approach to ensure

food/milk safety is to make all the possible efforts during all the stages of food production and handling that the levels of contaminants in food at the time of consumption are below safe levels. And that is being done.

While the survey results effectively counter wrong perception of large scale milk adulteration in India, but non-compliance on quality parameters, particularly in processed milk is a matter of concern. This has been taken up with all the dairies for initiating corrective and preventive action. Safety concerns due to contaminants would be addressed by monitoring the quality of cattle feed that appears to be a potential source of contamination of milk. Further, FSSAI has developed a standardized 'Scheme of Testing and Inspection (STI)' of milk by dairy processors at different stages of the value chain to ensure proper internal controls. The report also contains state-wise detailed factsheets with hotspot areas of safety concerns.

**Report of National Milk
Safety & Quality Survey
2018**

1.0 Introduction

Public confidence in the safety and quality of milk and milk products is adversely affected due to frequent reports/messages appearing in the media including social media in recent past, highlighting large scale adulteration of milk and milk products in the country. As country's food safety regulator, the Food Safety and Standards Authority of India (FSSAI) is expected to take cognizance of expression of such public concerns and take preventive/corrective measures in close cooperation with the State food safety authorities. Meta data of the country listed in Annexure-3

In 2011, FSSAI had conducted a quick survey of adulteration of milk through its regional offices. This quick survey suffered from several drawbacks that included lack of harmonized protocols for sample collection and analysis, testing in un-accredited laboratories, lack of data on the sectorial details of organized and unorganized sector and types of milk (buffalo milk, cow milk, mixed-milk, toned-milk, double toned milk, standardised milk, full cream milk, etc.). The survey was based on 1791 samples only and focussed mainly on quality parameters rather than safety concerns. Only qualitative analysis was done and the survey did not include parameters related to contaminants.

Considering, the anomalies of the 2011 survey which considered the quality issues as safety issues; and, in consistent with the directions of Honourable Supreme Court, FSSAI conducted the second national milk quality survey in 2016 through State food authorities. This survey also suffered from similar infirmities. Summary of the results of the surveys are mentioned in Annexure-1.

Also other then the surveys, FSSAI had been working on the Directions/Observations of Hon'ble Supreme Court in SLP No. 1379 of 2011, Swami Achyutanand Tirth & Ors vs Union Of India & Ors dated 5th August, 2016 and the detailed actions taken are annexed at Annexure-2.

To extend the previous surveys, FSSAI floated a RFP for "Nationwide milk quality surveillance to establish a robust system for milk quality monitoring" on 10th October 2017. This survey was proposed as a large scale survey on safety and quality of milk in the country`. A pre-bid meeting was held on 24th October 2017 and proposal was invited from prospective bidders for below work.

- a) Nationwide Qualitative Screening of Milk Samples for 13 common adulterants (Vegetable Oil/Fat, Detergents/Caustic Soda, Hydrogen peroxide, Sugar, Glucose,

Urea, Starch, Maltodextrin, Boric acid, Ammonium sulphate, Nitrates, Cellulose and Neutralizer) along with pesticides, aflatoxin M₁ and antibiotics with a minimum of 6000 samples as per sample plan from 29 states, 7 UTs and 717 districts.

- b) Identification of hotspots for particular adulterants including pesticides or aflatoxin M₁ or antibiotics; and root cause analysis for the same. The minimum sample size for quantitative analysis would be 30% of the total samples taken.
- c) Designing and operation of a framework for continuous monitoring of milk quality in the hotspots as identified in sub-para (b) above.

Upon evaluation of applicant qualification and profile, FSSAI shortlisted bidders and called for a technical presentation to understand the approach, methodology, plan and timelines of bidders. In order to ensure that the survey uses uniform test protocols both for sampling as well as analysis, FSSAI entrusted this survey to a reputed, accredited laboratory, VIMTA Labs Limited, which has pan-India presence.

To handle the large scale survey, to maintain traceability and to maintain accuracy in analysis, VIMTA Labs utilized its expertise to implement following methodologies which are first of its kind for such surveys.

- On-the-spot analysis of milk was done in mobile vans to avoid any error for qualitative analysis of adulterants, aflatoxin M₁, antibiotics and pesticides.
- Uniform protocols for sampling and analysis were followed throughout India.
- Real-time data platform capturing sample details, geo-tagging, photo documentation to ensure proper traceability so that a robust and a continuous monitoring system could be established.
- Data was instantaneously updated on the Milk Quality Monitoring Portal for just in time results availability.

In addition, those samples that failed in the qualitative tests were quantitatively analysed in the laboratory for various contaminants/hazards.

Referred to as ‘National Milk Quality Survey, 2018’, this survey is by far the largest in terms of sample size (6432 samples qualitatively analysed and 1965 samples quantitatively analysed for adulteration or contamination for safety parameters) and parameters tested, 2 quality parameters viz. Fat and SNF; 13 adulterants; and 3 contaminants – antibiotics, pesticides and Aflatoxin M₁).

FSSAI conceptualised plan to take up the proposed Milk Survey is an extension of the previous milk survey in terms of number of samples, types of tests to be conducted and geographical area to be covered. The proposed survey also includes designing and operation of a framework for continuous monitoring of milk quality in the hotspot areas. This would lead to extensive and intensive analysis of milk survey as a regular activity which would encompass a periodic pan-India monitoring of milk quality on a regular basis while taking into consideration the possible impact of seasonal/demand supply situation on the quality of milk and hot spot areas.

An effort was made to identify hot-spots for possible contaminants/adulterants.

Scope, coverage and period

2.0 To assess the quality and safety of milk across the country taking into consideration the possible impact of seasonal demand/supply situation on the quality of milk; to identify the hot spots of safety and quality concern; and to establish a robust continuous monitoring frame work for safety assessment of milk.

The survey panned 29 states and 7 union territories covering almost all major towns with population of >50,000 and 6432 samples were analysed qualitatively for 2 quality parameters (fat and SNF), 13 adulterants (vegetable oil/fat, detergents/caustic soda, hydrogen peroxide, sugar, glucose, urea, starch, maltodextrin, boric acid, ammonium sulphate, nitrates, cellulose, and neutralizer) and 3 contaminants (pesticides, aflatoxin M₁ and antibiotic residues). 1965 samples that indicated possible adulteration or contamination for safety parameters were analysed quantitatively in the laboratory. The survey was conducted over a period of about six months from 7May to 31 Oct, 2018.

Test parameters

3.0 Milk samples were tested for 2 quality parameters, fat and SNF. Another parameter, namely protein was also tested even though the standards are yet to be established for protein in milk in India. Added water was also checked to verify the impact on fat and SNF.

It was tested for 13 adulterants, namely - 1) Vegetable Oil/Fat, 2) Detergents/ Caustic Soda, 3) Hydrogen peroxide, 4) Sugar, 5) Glucose, 6) Urea, 7) Starch, 8) Maltodextrin, 9) Boric acid, 10) Ammonium sulphate 11) Nitrates, 12) Cellulose, and 13) Neutralizers. There are no quantitative parameters for adulterants except urea, where limit of 700mg/kg has been set. The following contaminants were also tested.

-93 Antibiotic residues with MRL,

-Aflatoxin M1 with MRL of 0.5µg/kg

-18 Pesticide residues with MRL,

Sampling and methodology

4.1 Sampling basis

As per tender document, samples were to be collected from 717 districts of 29 states and 7 union territories. When using Hadoop technology data scraping and loading tools, it was found that there are several thousands of milk mandis, dairy shops and local dairy farms. Following grid based and dispersion based sampling mechanisms, would have given a very thin spread of samples across the districts which will not provide hotspot information upon sampling and analysis. This information was critically evaluated by FSSAI technical team and VIMTA team members and sampling was designed to target largely populated areas which are more prone to adulteration due to demand/supply gaps, in this current study. It was also noted that remaining areas of less populated towns and villages which were not part of the current study will be covered at later stage as part of on-going evaluations and continuous monitoring.

Census of India, 2011 data indicated that there are 1106 towns in India with more than 50,000 populations. Sample spread was done as below.

Population range	No. of samples collected
50000-1,00,000	4
1,00,000 -2,00,000	5
2,00,000-5,00,000	6
5,00,000-10,00,000	8
Above 10,00,000	Proportionate to population

For list of States, UTs and towns covered Annexure-4 and Annex-5 may be referred.

For the purpose of the survey, the following entities were considered under the unorganized sector:

- Local dairy farm: a farmer who has minimum of 10 cattle (Cows/buffalos) and supply to milk mandi/vendor/processing centres;
- Milk mandi: a place where farmers gather to sell to public or a place where milk gets collected and further supplied to processing centres; and,
- Milk vendor: any person who has established shop and sells raw milk without processing.

Following entities were considered under the organized sector:

- Milk retailers/local dairy shops: shop which has established address to sell processed/ pasteurized milk; and,
- Milk processing centre: any unit which processes milk in large scale and supplies pasteurized milk packets to retailers.

4.2 Sample collection

A state-of-the-art real time data platform was employed for capturing the data online with user access and password for traceability of sampler, and geographical location. Samples were collected from both organized and unorganized sectors by trained samplers using harmonized protocols and by entering the below details of the sample. The following information was captured in the software during sample collection.

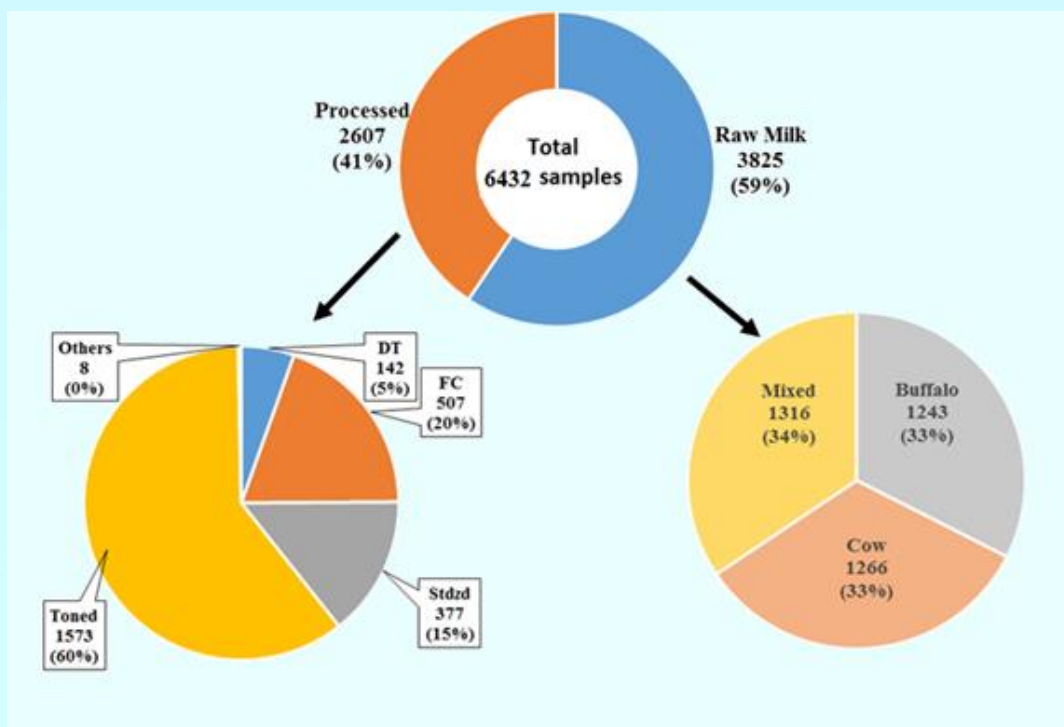
- Date and time of sampling
- GPS location, names of Town, District and State along with photograph
- Point of collection (Local dairy farm, Milk vendor, Local retail shops, Milk mandis, processing units)
- Name of the person/dairy farm/ processing unit and contact numbers wherever possible,
- Type of milk (Raw buffalo milk, Raw cow milk, mixed milk, processed milk)
- Brand name, batch no. and expiry date in case of retail packs/processed milk
- Temperature at the time of collection
- Sampling person details

For more details on real time data platform Annexure-6 may be referred.

The samples (6432) were collected from all major towns with population of >50,000 (as per census of India, 2011) covering 29 states and 7 union territories and qualitatively screened on the spot for 2 quality parameters (fat and SNF), 13 common adulterants (Vegetable Oil/Fat, Detergents/Caustic Soda, Hydrogen peroxide, Sugar, Glucose, Urea, Starch, Maltodextrin, Boric acid, Ammonium sulphate, Nitrates, Cellulose and Neutralizer) and 3 contaminants (pesticides, aflatoxin M₁ and antibiotics). 1965 samples that indicated possible adulteration or contamination for safety parameters were analysed in the laboratory quantitatively.

The following pictogram presents the bifurcation of samples with respect to raw milk (buffalo, cow and mixed milk), and various processed milk types.

Figure 1: No. of samples with respect to various types of milk



(DT: Double Toned; Stdzd: Standardized; FC: Full Cream)

For details of sampling kits used and sampling instructions Annexure-7 may be referred

Sample analysis

5.1 Qualitative analysis

A total of 6432 milk samples were tested on-the-spot for all qualitative parameters (fat, SNF and 13 adulterants) by trained analysts in mobile food testing laboratories using 'Milk-O-Screen' instrument. The samples were also screened for aflatoxin M₁, pesticides and antibiotics using validated rapid test kits in the field. The 13 common adulterants included vegetable oil/fat, detergents/caustic soda, hydrogen peroxide, sugar, glucose, urea, starch, maltodextrin, boric acid, ammonium sulphate, nitrates, cellulose, and neutralizer. For more details on test methods Annex-10 may be referred.

5.2 Quantitative analysis

A total of 1965 samples that were tested positive for any of the adulterants and/or contaminants were shipped to the laboratory under chilled condition and tested quantitatively to ascertain whether the sample is compliant or non-compliant to the respective limits set. Adulterant quantitative analysis was done using available methods from FSSAI manual for milk products; while, antibiotics and aflatoxin M₁ were tested using validated LC-MS/MS method, and pesticides by validated LC-MS/MS and GC-MS/MS methods. Equipment accuracy and analysis uncertainty was considered in concluding the quantitative results for non-compliance.

5.3 Milk standards

The milk standards and associated regulations enlist different parameters for milk types and geographical locations. The various milks standards and parameters in existence at the time of the previous surveys as well as current survey are summarized in Table 1.

Table 5.3.1: Milk standards and regulations

S.No.	Parameters	Standard limits	
		FSSR 2011	FSSR 2011, amended in 2018
1.	Fat	0.5-6.0%	0.5-6.0%
2.	SNF	8.5-9.0%	6.0-9.0%
3.	Vegetable Oil/Fat	Negative	Negative
4.	Detergents/Caustic Soda	Negative	Negative
5.	Hydrogen peroxide	Negative	Negative
6.	Sugar	Negative	Negative
7.	Glucose	Negative	Negative
8.	Urea	700mg/kg	700mg/kg
9.	Starch	Negative	Negative
10.	Maltodextrin	Negative	Negative
11.	Boric acid	Negative	Negative
12.	Nitrates	Negative	Negative
13.	Cellulose	Negative	Negative
14.	Neutralizer	Negative	Negative
15.	Ammonium Sulphate	Negative	Negative
16.	Pesticide residues (with isomers)	22 residues with MRL	18 residues with MRL
17.	Antibiotic residues	-----	93 residues with MRL
18.	Aflatoxin M ₁	0.5µg/kg Max	0.5µg/kg Max

(MRL: Maximum residue level)

Key findings of milk survey 2018

The State wise distribution of samples surveyed is predicted in Table 6.0.1. The results of the study were grouped into two major categories i.e., compliant (C) and non-compliant (NC) to the FSSAI standards. Further, the non-compliant samples were grouped into two categories as those samples that were non-compliant as sub-standard without any safety issues (those samples that failed in terms of quality parameters - fat, SNF, sugar, maltodextrin) and sub-standard with safety issues (those samples that failed in terms of parameters that lead to safety issues). The results of NMQS 2018 are summarized in Table 6.0.2.

Table 6.0.2: Summary of Results

Criteria	Sample Numbers	Sector wise				Overall, %
		Processed		Raw		
		Samples	% #	Samples	% \$	
Total numbers sampled	6432	2607	40.5	3825	59.5	--
(a) Compliant	3329	1427	54.7	1902	49.7	51.8
(b) Non-Compliant (NC)	3103	1180	45.3	1923	50.3	48.2
(i) NC with only quality issues	2647	909	34.9	1738	45.4	41.2
(ii) NC with only safety issues	322	198	7.6	124	3.2	5.0
(iii) NC with both quality and safety issues	134	73	2.8	61	1.6	2.1
Total samples without safety issues	5976	2336	89.6	3640	95.2	92.9
Total unsafe samples	456	271	10.4	185	4.8	7.1

% against number of processed milk samples

\$ % against number of raw milk samples

The samples that were non-compliant as sub-standard without any safety issues, i.e. those samples that failed in terms of quality parameters - fat, SNF, sugar, maltodextrin are summarized in Table 6.0.3.

Table 6.0.3: Non-compliant (NC) Samples due to Quality Concerns without Safety Issues

Test group / Parameter	Samples, numbers	Processed, No. of samples	Processed, %	Raw, No. of samples	Raw, %	Overall, %
Total NC	2781	982	37.7	1799	47.0	43.0
NC for fat	1255	346	13.3	909	23.8	19.5
NC for SNF	2167	731	28.0	1436	37.5	33.7
NC for Maltodextrin	156	148	5.7	8	0.2	2.4
NC for Sugar	78	55	2.1	23	0.6	1.2

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters

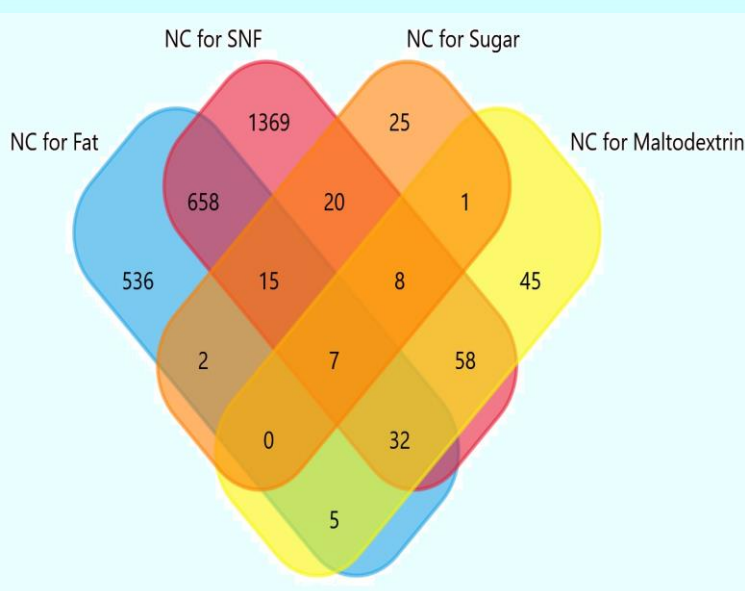
The non-compliance for other parameters viz. Cellulose, Glucose, Starch and Vegetable oil was not found in the collected samples.

The following Venn diagram (Figure 1) provides pictorial view of samples failing for groups of parameters.

Figure.1: Venn diagram for Non-compliant, but safe (substandard)

From a total of 2781 NC (substandard) samples

- 536, 1369, 25 and 45 did not comply with the set limits for fat, SNF, sugar and maltodextrin respectively.
- 658 samples did not comply for fat and SNF contents; 20 samples for SNF and sugar; 1 sample did not comply for sugar and maltodextrin; 58 samples did not comply for SNF and maltodextrin; 2 samples did not comply for fat and sugar; 5 samples did not comply for fat and maltodextrin.
- 32 samples did not comply for fat, SNF and maltodextrin; 8 samples did not comply for SNF, maltodextrin and sugar; 15 samples did not comply for fat, SNF and sugar.
- 7 samples did not comply for fat, SNF, maltodextrin and sugar).



The non-compliant samples with safety issues (those samples that failed in terms of parameters that lead to safety issues) are summarised in Table.6.0.4

Table 6.0.4: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, No. of samples	Processed, %	Raw, No. of samples	Raw, %	Overall, %
Total NC with safety issues	456	271	10.4	185	4.8	7.1
NC for Contaminants						
Aflatoxin M ₁	368	227	8.7	141	3.7	5.7
Antibiotics	77	40	1.5	37	1.0	1.2
Pesticides	01	Nil	Nil	1	<0.1	<0.1
NC for Adulterants						
Urea	02	Nil	Nil	2	<0.1	<0.1
Detergents	03	1	<0.1	2	<0.1	<0.1
Hydrogen peroxide	06	3	0.1	3	0.1	0.1
Neutralizers	01	1	<0.1	Nil	<0.1	<0.1

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

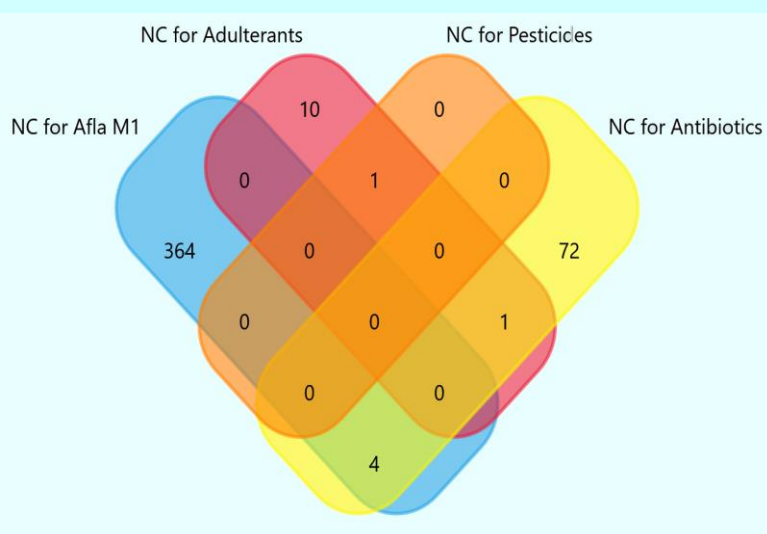
The non-compliance with safety issues for other parameters viz. Boric acid and Nitrates were not found in the samples collected.

The following pictorial representation (Figure 2) provides the overview of samples failing for multiple safety parameters.

Figure 2: Venn diagram for Non-compliant, and unsafe

From a total of 456 NC (unsafe) samples –

- 364, 10 and 72 samples did not comply with limits for aflatoxin M₁, adulterants and antibiotics.
- 4 samples did not comply for aflatoxin M₁ and antibiotics; 1 sample did not comply for antibiotics and adulterants; 1 sample did not comply for pesticides and adulterants.
- No sample failed for all unsafe parameters.



Note: Non-compliant (Others) include Detergents, Hydrogen peroxide, Urea, Neutralizers and pesticides.

Table 6-0.1. State-wise, sector-wise and overall disposition of samples (in numbers) compliant on quality and safety issues analysed during the survey. [Spl : Sample, C : Compliant, NC : Non-compliant, Q : Quality issues, S : Safety issues, Q&S : Quality & safety issues]

S.No	State/ UT	Sector wise disposition														Overall, Numbers				
		Processed, numbers					Raw, Numbers					Total	C	Q	S	Q&S				
		Spl	C	Q	S	NC	Q&S	Spl	C	Q	S						NC	Q&S		
1	ANDAMAN & NICOBAR ISLAND	3	3	0	0	0	0	2	1	1	0	0	0	5	4	1	0	0		
2	ANDHRA PRADESH	199	61	133	0	5	145	82	60	1	2	344	143	193	1	7	0			
3	ARUNACHAL PRADESH	1	0	1	0	0	5	3	2	0	0	6	3	3	0	0	0			
4	ASSAM	7	3	4	0	0	15	12	3	0	0	22	15	7	0	0	0			
5	BIHAR	108	90	16	2	0	167	57	109	0	1	275	147	125	2	1	1			
6	CHANDIGARH	8	3	1	3	1	12	8	3	0	1	20	11	4	3	2	2			
7	CHHATTISGARH	26	20	1	4	1	58	37	21	0	0	84	57	22	4	1	1			
8	DADRA & NAGAR HAVELI	6	1	5	0	0	0	0	0	0	0	6	1	5	0	0	0			
9	DAMAN & DIU	7	3	4	0	0	5	3	2	0	0	12	6	6	0	0	0			
10	GOA	18	11	7	0	0	0	0	0	0	0	18	11	7	0	0	0			
11	GUJARAT	113	46	61	2	4	343	166	165	8	4	456	212	226	10	8	8			
12	HARYANA	34	21	9	4	0	127	57	60	5	5	161	78	69	9	5	5			
13	HIMACHAL PRADESH	9	8	1	0	0	11	5	4	0	2	20	13	5	0	2	2			
14	JAMMU & KASHMIR	34	19	15	0	0	70	34	36	0	0	104	53	51	0	0	0			
15	JHARKHAND	87	59	28	0	0	64	31	33	0	0	151	90	61	0	0	0			
16	KARNATAKA	220	128	82	7	3	166	96	67	2	1	386	224	149	9	4	4			
17	KERALA	104	67	8	24	5	83	36	38	6	3	187	103	46	30	8	8			
18	LAKSHADWEEP	4	1	3	0	0	0	0	0	0	0	4	1	3	0	0	0			
19	MADHYA PRADESH	68	24	37	5	2	267	115	125	13	14	335	139	162	18	16	16			
20	MAHARASHTRA	234	145	76	7	6	444	257	171	11	5	678	402	247	18	11	11			
21	MANIPUR	4	0	4	0	0	8	6	2	0	0	12	6	6	0	0	0			

S.No	State/UT	Sector wise disposition																			
		Processed, numbers								Raw, Numbers								Overall, Numbers			
		Spl	C	Q	S	NC	Q&S	Spl	C	Q	S	NC	Q&S	Total	C	Q	S	Q&S			
22	MEGALAYA	7	2	5	0	0	0	11	7	4	0	0	0	18	9	9	0	0			
23	MIZORAM	2	2	0	0	0	0	4	3	0	1	0	6	5	0	1	0				
24	NAGALAND	6	1	3	2	0	0	6	1	3	1	1	12	2	6	3	1				
25	NCT OF DELHI	194	118	37	31	8	8	68	24	41	2	1	262	142	78	33	9				
26	ODISHA	106	48	45	9	4	4	86	39	37	8	2	192	87	82	17	6				
27	PUDUCHERRY	14	10	4	0	0	0	7	4	3	0	0	21	14	7	0	0				
28	PUNJAB	41	26	2	12	1	1	162	101	45	15	1	203	127	47	27	2				
29	RAJASTHAN	76	58	10	7	1	1	238	115	113	4	6	314	173	123	11	7				
30	SIKKIM	9	6	3	0	0	0	1	1	0	0	0	10	7	3	0	0				
31	TAMIL NADU	292	96	134	42	20	20	259	170	59	25	5	551	266	193	67	25				
32	TELANGANA	91	42	35	8	6	6	147	72	65	8	2	238	114	100	16	8				
33	TRIPURA	1	1	0	0	0	0	5	5	0	0	0	6	6	0	0	0				
34	UTTAR PRADESH	182	123	39	17	3	3	547	257	275	12	3	729	380	314	29	6				
35	UTTARAKHAND	28	17	7	4	0	0	31	12	16	2	1	59	29	23	6	1				
36	WEST BENGAL	264	164	89	8	3	3	261	85	175	0	1	525	249	264	8	4				
	TOTAL	2607	1427	909	198	73	73	3825	1902	1738	124	61	6432	3329	2647	322	134				

Note : > 90% of the samples were found to be safe for consumption.

Results and Discussion

7.0 NON-COMPLIANT SAMPLES WITH “QUALITY ISSUES”

- 7.1 The countrywide cluster of quality and safety found in the survey indicating the hot spot areas is depicted in Figure 1.
- 7.1.1 Fat, solid non-fat (SNF) are usually considered to be satisfactory measures of overall quality of milk, but these vary widely by species and depend on breed as well quality of feed and fodder. Chilling plants and milk processors often use measure of fat and SNF to determine the cost of milk. Despite its limited purpose, FSSAI regulations have specified the minimum standards of fat and SNF for various types of milk. For Standard milk and Mixed milk, it is 4.5 for fat and 8.5 for SNF, for cow milk, it is 3.2 for fat and 8.3 for SNF, and for buffalo milk, it is 5.0 or 6.0 (depending on States) for fat and 9.0 for SNF. It is different for toned milk, double toned milk and full cream milk.
- 7.1.2 Samples were tested for levels of fat and SNF in this survey against standards of fat and SNF for various types of milk. It is noted that as many as 1255 (19.5%) of the samples did not meet standards of fat and 2167 (33.7%) of the samples did not meet standards of SNF. In another 218 samples (3.4%) of the total samples, Sugar and/or Maltodextrin were found to be added. Sugar and Maltodextrin are sometimes added to raise the level of fat and SNF. Overall 2781 samples (43.2% of the total) did not meet quality parameters.
- 7.1.3 Non-compliance on Fat and SNF quality parameters is higher in raw milk than in processed milk, but on added Sugar and Maltodextrin, non-compliance is mostly in processed milk. Unlike non-compliance on safety parameters, non-compliance on account of quality parameters is across all States and UTs, even though extent of such non-compliance varies.
- 7.1.4 A more detailed and nuanced analysis of non-compliance on quality parameters is needed. As far as raw milk is concerned, non-compliance on quality parameters may be stated that this could either be due to quality of feed and rearing practices itself, or due to dilution of milk with water. Addition of water not only diminishes nutrition and quality but may also lead to safety issues if water used is contaminated. Since, in most cases, liquid milk is boiled and then consumed, public health risk due to microbiological contamination is minimal.

- 7.1.5 To get the right quality of milk, cattle should be properly fed, with proper care, and good management practices must be followed. Improving farm practices, storage and handling practices are required to be emphasized through various extension activities at village or dairy farm level. Conduct of awareness programs at dairy farms about nutritious feed may improve in increase of fat and SNF levels to desired limits specified by the FSSAI.
- 7.1.6 Samples were tested for added Sugar and Maltodextrin in this survey. A total of 218 samples (3.4% of the total samples) were found with added Sugar and Maltodextrin. A large majority of this addition was found in processed milk samples, perhaps to increase SNF content of the milk. While there may not be any public health issues, addition of Sugar, Maltodextrin should be discouraged completely.
- 7.1.7 Non-compliance on quality parameters in processed milk even though lower than raw milk is still significantly large. This issue needs to be addressed through various measures.

7.2 NON-COMPLIANT SAMPLES “WITH SAFETY ISSUES”

7.2.1 Having adulterants that render milk unsafe for consumption

The survey shows that 12 out of a total of 6,432 samples had adulterants that affect the safety of milk. Neutralizers, detergents, urea and hydrogen peroxide were detected in 1, 3, 2, and 6 samples respectively while no sample failed for boric acid and nitrates. In all cases, this is less than 0.1% of all samples. Considering the scope of this survey and 6432 samples, the failure and adulteration of 12 samples out of 6432 is insignificant. Hence from this large scale survey, one may conclude that milk in India is largely free from adulterants that render it unsafe for consumption.

7.2.2 Having contaminants that make milk unsafe for consumption

- For the first time, this survey analysed major contaminants including residues of pesticides, antibiotics, aflatoxin M₁. The survey shows that 456 samples (out of a total of 6,432 samples) had contaminants that make milk unsafe for consumption. This is about 7 percent of the overall sample size. In all these cases, milk is getting contaminated due to poor quality of feed, irresponsible use

of antibiotics and poor farm practices. Quantitative analysis of contaminants suggests that the issue of contaminants is not alarming. It is also restricted to few pockets and in some States. In such cases the regulator would be able to address the concerns by targeted awareness building activities and monitoring of primary production over a period of time.

- Samples were tested for residues of 18 pesticides in this survey. It is noted that though there were instances of detecting of pesticides in milk; only one case, exceeded the maximum residue level (MRLs) permitted by FSSAI. This clearly shows that there is no immediate concern about residues of pesticides in milk. One may however continue to monitor residue levels of pesticides in milk on an on-going basis to build public confidence in quality of milk.
- Samples were tested for residues of 93 antibiotics and veterinary drugs in this survey. It is noted that residues of antibiotics were found in 77 samples (i.e. 1.2% of the samples). Oxy-tetracycline was the main antibiotic detected. Tetracycline is the major antibiotic group used to treat animals with bovine mastitis. Its occurrence may largely be due to ignorance of the farmers about withdrawal periods necessary for eliminating their secretion into milk. Sometimes, extra dosages are administered to cattle or the feed is contaminated. There could also be cases of using unlicensed antibiotics. It is also believed that some primary producers use sub-therapeutic doses of antibiotics to prevent diseases. There is a need for awareness building activities and effective guidance in animal husbandry practices; and a residue prevention strategy by having a proper drug use guide, proper maintenance of treatment and health records, and identification of treated animals and such milk should not be sold while the animal is under treatment. The survey also shows that this problem is restricted to a few pockets and in some States, therefore one would be able to address this concern by targeted awareness building activities and monitoring use of antibiotics and veterinary drugs over a period of time.
- Samples were tested for Aflatoxin M₁ in this survey with a tolerance limit of 0.5 µg/kg. Aflatoxin M₁ was detected in 368 (out of 6,432 samples), that

is 5.7% of the samples at levels above the permissible limit. Further, analysis showed that 3 per cent samples had Aflatoxin levels within 2 times the MRL (i.e., $1.0 \mu\text{g}/\text{kg}$) while 1.4% had levels ranging from 2 to 5 times the MRL and the remaining 1.3% had Aflatoxin over 5 times the MRL. Aflatoxin M_1 is the principal hydroxylated aflatoxin metabolite present in the milk of dairy cattle fed a diet contaminated with aflatoxin B_1 . Aflatoxin M_1 a metabolite of aflatoxin B_1 that is produced during normal biological processes of animals. Aflatoxins are produced by *Aspergillus flavus* and *Aspergillus parasiticus* which can contaminate feed. Aflatoxin is found in maize and cottonseeds and in their by-products. Favourable conditions of temperature, relative humidity/moisture, poor storage conditions, substrate composition, and storage time play an important role in fungal growth and contribute to the synthesis of these toxins. Most effective way of controlling Aflatoxin M_1 is by reducing contamination of feedstuff by Aflatoxin B_1 for dairy cattle. It must be noted that occurrence of Aflatoxin is directly related to feed quality and has bearing on public health. The survey shows that this problem is restricted to a few pockets and in some States, therefore targeted awareness building activities for farmers and their adoption of good storage and transportation of feed can address this concern.

For state wise and town wise data Annex-11 may be referred.

7.3 SAMPLES “WITH ADDITIONAL DETECTIONS”

7.3.1 Samples were tested for Ammonium sulphate in this survey. Ammonium sulphate was detected in 195 (out of 6,432 samples), that is 3 % samples of milk. Quantitative analysis shows that level of Ammonium sulphate in milk ranged from 181-840ppm. Out of the 3.0% of samples, quantitative analysis revealed that 1.7% of the detected samples found at <math><350 \text{ ppm}</math>, 1.2% at 350-700 ppm and 0.1% at $>700 \text{ ppm}$. FAO reports that feed is allowed to be enriched with Ammonium compounds and Ammonium sulphate and it is safe for cattle and sheep to add to the protein intake of animals. USFDA Title 21 Part 184, Subpart B, 184.1143 states that “Ammonium sulphate (CAS Reg. No.7783-20-2) occurs naturally and also used as an ingredient in food at levels not to exceed good manufacturing practice, and current good manufacturing

practice results in a maximum level, as served, of 0.15% i.e.1500ppm. The detected levels of ammonium sulphate in all milk samples are well within the maximum levels specified by USFDA current good manufacturing practice. Currently, the FSSAI regulations do not prescribe any limits for ammonium sulphate in milk. Further, study is required to verify natural levels of ammonia and sulphates in milk and fixing tolerance limits for ammonium sulphate in milk.

7.3.2 The samples were also tested for added water in milk. A total of 1024 raw milk samples were found with added water resulting in failure of meeting respective minimum level of Fat & SNF of milk. Out of 1024 samples, 382 samples were not meeting minimum Fat level and 962 samples were not meeting minimum SNF levels. This indicates that at milk production level water is getting added through rinsing of vessels or added to make up the volume. To note, if the added water quality is not adequate, this can pose health risk to consumers. A detailed microbiological study may be required to assess this risk. Moreover water addition has commercial angle and which can only be reduced if one follows business ethics.

Post survey actions

8.1 Coverage

As discussed in section 5.0, the current survey focussed only in the towns having population of >50,000 considering the demand/supply gaps and limitation on number of samples. However the data indicates that 19.6% of samples contain fat less than the prescribed limit in the regulation, 33.7% of samples contain less SNF. More coverage followed by corrective measures will ensure to address the quality issues.

Data also indicates that the processed milk failed for 29.5% with respect to fat and SNF, hence there is a need to cover more small plants to monitor the compliance.

8.2 Usage of real-time data platform for accurate reporting

For routine monitoring, real time data platform was used to ensure accurate location reporting which is helpful to trace back the source of quality issues and origin of contamination in milk. Real time data platform used in the present study covered sample and vendor details, geo-tagging of samples and photo-documentation of locations relevant for FSOs to capture information as it uploads data instantaneously to web portal and makes data available to nodal officers, state FSSAI and central FSSAI. Such platform assures tamper proof information on sampling and ensures proper traceability for continuous monitoring.

Further the real time data platform used for the study also captured analysis results and photo of equipment screens and observations.

8.3 Hot spot areas and way forward

From 29 states and 7 UTs, there were about 17 states/UTs which showed non-compliance in the range of 37% to 60% with respect to quality and safety. These states include Andhra Pradesh, Karnataka, Kerala, Tamilnadu, Telangana, Maharashtra, Madhya Pradesh, Orissa, West Bengal, Bihar, Jharkhand, Uttar Pradesh, Delhi NCR region, Punjab, Haryana, Rajasthan and Gujarat. Town hot spots were identified in these states are presented in Annexure-9. Corrective measures are required to improve the quality of milk, further more extensive sampling and analysis may be carried out in the particular areas to find root cause of sub-standard milk. Therefore the State Food Authorities have initiated extensive enforcement activities at their respective State/UTs.

Data indicates indiscriminate usage of antibiotics in the states of Andhra Pradesh, Karnataka, Telangana, Maharashtra, Madhya Pradesh, Orissa, Bihar, Uttar

Pradesh, Delhi NCR region, Haryana, Rajasthan and Gujarat. Hot spots were identified in these states as per Annexure-9. Corrective measures are required to improve the quality of milk and more extensive sampling and analysis may be carried out in those particular areas to find root cause of unsafe milk and control the same.

Aflatoxin M₁ concentration above MRL was found more in the states of Haryana, Kerala, Delhi NCR region, Orissa, Punjab and Tamilnadu. As aflatoxin M₁ is a metabolite of aflatoxin B₁ which is a contaminant in the feed and grown during storage in humid conditions, this concern may be addressed by having targeted awareness building activities for farmers and their adoption of good practices for storage and transportation of feed. To control the levels of aflatoxins in the feed and more extensive analysis may be carried out to control the same. Also the regulations for feed and fodder will be in place.

8.4 As the non compliance was higher in processed samples, therefore many rounds of meetings and discussions were held with different stakeholders and ministries. Therefore all the dairy processing plants should follow a standardized Scheme of Sampling and Testing and Inspection developed by FSSAI for monitoring of internal controls to ensure safe and good quality supply of milk and milk products to consumers. This scheme is being proposed to be included in the part III of schedule IV of Food Safety and Standards (Licensing and Registration) Amendment Regulation, 2019. While, this would be notified along with overall amendment of the Food Safety and Standards (Licensing and Registration) Amendment Regulation, 2019, it has been decided to operationalize the Scheme of Sampling and Testing with immediate effect. All dairy processing plants shall maintain this record which will be checked/ verified during surveillance/inspection.

Acknowledgements

9.0 FSSAI and VIMTA Labs acknowledge support given by the Central and State food authorities for their cooperation and support in this survey. For resources involved in the study, Annex-10 may be referred.

Annexure-1

**Comparative Statement of Milk
Surveys**

Particulars	2011 Survey	2016 Survey	2018 Survey
1. Scope and coverage	1791 Samples in 33 States/UTs 3 quality parameters (fat, protein and solids not fat (SNF)) 11 adulterants (sugar, glucose, starch, vegetable oil, skimmed milk powder (SMP), neutralizer, acidity, hydrogen peroxide, urea, detergent and formalin)	1663 Samples in 32 States/UTs No Quality Parameters No Contaminants 14 adulterants(SMP and acidity not included and 5 new, malt dextrin, boric acid, ammonium sulphate, nitrates, and cellulose added compared to 2011 Survey)	6432 Samples across all 36 states/UTs 2 quality parameters (Fat and SNF) 3 contaminants (antibiotics, pesticides and AflatoxinM1). 13 adulterants– All as in 2016 Survey except Formalin that was allowed as preservative to transport samples.
2. Analytical methods & protocol	Sampling done by FSOs; each laboratory followed its own in-house protocol for analysis		Harmonized sampling protocol and analytical methodology throughout the survey
3. Places of analysis	Samples collected across by different samplers in various States and analysed at multiple locations		Trained samplers collected samples; and, analysis done by single agency using uniform protocol
4. Comparison of results			
Non-compliant Safety - total	Not Analysed	Not Analysed	456
Contaminants			
Aflatoxin-M1	Not Analysed	Not Analysed	368
Antibiotics	Not Analysed	Not Analysed	77
Pesticides	Not Analysed	Not Analysed	1
Adulterants	2	132	12
Detergent	*	11	3
Neutralizers	2	72	1
Urea	0	32	2
Formalin	0	13	Not Analysed
Hydrogen Peroxide	0	1	6
Nitrates	Not Analysed	2	0
Boric Acid	Not Analysed	1	0
Non-compliance-Quality-Total	976	131 (Fat &SNF not included)	2647
Fat	507	Not Analysed	1255
SNF	385	Not Analysed	2167
Maltodextrin	Not Analysed	64	156
Sugar	0	96	78
Starch	0	1	0
Cellulose	Not Analysed	2	0
Vegetable oil	0	17	0
Glucose	0	28	0
SMP	548	Not Analysed	Not Analysed
Protein	0	Not Analysed	Not Analysed

Remarks

- (1) Since some of the samples failed for more than one parameter, therefore total numbers may not match in all cases.
- (2) In 2011 Survey, all 250 samples analysed in CFL, Kolkata showed presence of detergents, while no other lab showed any presence of detergents. Since this was only qualitative analysis, traces of detergent are possible if utensils are not rinsed properly rather than deliberate adulteration, hence this could be safely ignored.
- (3) Skimmed Milk Powder (SMP) is often used in processed milk for standardizing it and is not treated as an adulterant, hence not included in 2016 and 2018 Surveys.
- (4) Samples failing for Urea in 2016 Survey were not subject to qualitative analysis, hence not sure whether these samples were have value of Urea beyond permissible limits.
- (5) 2018 Survey had over 3-times numbers of samples compared to earlier Surveys and both qualitative as well as quantitative analysis was done. All the samples were tested on-the spot; samples for quantitative analysis reached laboratory within 4 hours under cold chain. Thus, 2018 Survey is more holistic and reliable.

Annexure-2
Supreme court order and action
thereof

ATR on the Directions/Observations of Hon'ble Supreme Court in SLP No. 1379 of 2011, Swami Achyutanand Tirth & Ors vs Union Of India & Ors on 5 August, 2016

Direction/ Observation	Action Taken
<p>1) Union of India and the State Governments shall take appropriate steps to implement Food Safety and Standards Act, 2006 in a more effective manner.</p>	<p>Union of India and the State Governments through FSSAI and State Food Authorities are taking several steps to implement Food Safety and Standards Act, 2006 in a more effective manner.</p>
<p>2) States shall take appropriate steps to inform owners of dairy, dairy operators and retailers working in the State that if chemical adulterants like pesticides, caustic soda and other chemicals are found in the milk, then stringent action will be taken on the State Dairy Operators or retailers or all the persons involved in the same.</p>	<p>Awareness building</p>
<p>3) State Food Safety Authority should also identify high risk areas (where there is greater presence of petty food manufacturer/business operator etc.) and times (near festivals etc.) when there is risk of ingesting adulterated milk or milk products due to environmental and other factors and greater number of food samples should be taken from those areas.</p>	<p>National Milk Safety and Standards Survey, 2018 has provided a comprehensive view milk quality in over 1100 cities and towns covering all States / UTs. Based on this, risk-based surveillance and monitoring in identified hot spots would be taken up with the support of State Food Authorities.</p>
<p>4) State Food Safety Authorities should also ensure that there is adequate lab testing infrastructure and ensure that all labs have/obtain NABL accreditation to facilitate precise testing. State Government to ensure that State food testing laboratories/district food laboratories are well-equipped with the technical persons and testing facilities.</p>	<p>By notifying 172 food-testing laboratories 19 referral laboratories for primary testing and appellate testing respectively, FSSAI has created a nation-wide network of food testing laboratories in the country that includes testing of milk and milk products. Further, States/UTs are being supported to upgrade their own food testing laboratories so that these adequately equipped with necessary technical persons and testing facilities including comprehensive testing of quality parameters, contaminants and adulterant in milk and milk products. So far,</p>

	29 State labs in 25 States/UTs have been supported.
5) Special measures should be undertaken by the State Food Safety Authorities (SFSA) and District Authorities for sampling of milk and milk products, including spot testing through Mobile Food Testing Vans equipped with primary testing kits for conducting qualitative test of adulteration in food.	FSSAI is providing mobile food testing vans labs and EMAT machines to State Food Safety Authorities (SFSA) for spot testing of milk and conduct of basic quantitative tests to assess adulteration of milk. So far, 32 mobile food testing vans to 27 States/UT have been provided. In addition, EMAT (Electronic Milk Adulteration Tester) has also been to 29 State/UTs.
6) Since the snap short survey conducted in 2011 revealed adulteration of milk by hazardous substances including chemicals, such snap short surveys to be conducted periodically both in the State as well as at the national level by FSSAI.	While, in case of raw milk, States / UTs would be advised to carry out snapshot surveys, for processed milk, a system of regular monitoring of milk quality is being put in place, wherein milk quality and safety would be checked periodically for all milk processing plants with periodicity calibrated based on tracking of test results.
7) For curbing milk adulteration, an appropriate State level Committee headed by the Chief Secretary or the Secretary of Dairy Department and District level Committee headed by the concerned District Collector shall be constituted as is done in the State of Maharashtra to take the review of the work done to curb the milk adulteration in the district and in the State by the authorities.	State Advisory Committee and District level Committee
8) To prevent adulteration of milk, the concerned State Department shall set up a website thereby specifying the functioning and responsibilities of food safety authorities and also creating awareness about complaint mechanisms. In the website, the contact details of the Joint Commissioners including the Food Safety Commissioners shall be made available for registering the complaints on the said website. All States should also	FSSAI website with State pages

<p>have and maintain toll free telephonic and online complaint mechanism.</p>	
<p>9) In order to increase consumer awareness about ill effects of milk adulteration as stipulated in Section 18(1) (f) the State Food Authority/Commissioner of Food Safety shall inform the general public of the nature of risk to health and create awareness of food safety and standards. They should also educate school children by conducting workshops and teaching them easy methods for detection of common adulterants in food, keeping in mind indigenous technological innovations (such as milk adulteration detection strips etc.)</p>	<p>Food safety Magic Box and DART</p>
<p>10) Union of India/State Governments to evolve a complaint mechanism for checking corruption and other unethical practices of the Food Authorities and their officers.</p>	<p>State/UTs to open anti-corruption/ vigilance cell (if not in place)</p>

Annexure-3
Meta data of the country

Meta Data-General -

Population*	Literacy rate*	Per capita # income	Per capita milk consumption	No. of towns above 50K population*
1,210,193,422	66.46%	Rs.3,90,138	96 g/day	1101

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, # Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
26.2%	68.1

Ref:

Infant Mortality Rate(2016) -<http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>

LifeExpectancy(2010-14) -<http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry^

Cattle count*	13,32,69,000	Milk production*	16,54,03,000 tons per annum
Feed manufacturers	286	Co-operative societies#	1,77,314
Veterinary hospitals#	12,235	Dairy processing units\$	572

Ref:

<http://www.nddb.coop/information/stats/milkprodstate>,

dahd.nic.in/schemes/animal-husbandry

\$<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Annexure-4
NMQS-2018 States and UTs covered

National Milk Quality Survey 2018

State/UT	No. of towns	No. of samples
ANDAMAN & NICOBAR ISLAND	1	5
ANDHRA PRADESH	72	344
ARUNACHAL PRADESH	1	6
ASSAM	3	22
BIHAR	57	275
CHANDIGARH	1	20
CHHATTISGARH	16	84
DADRA & NAGAR HAVELI	1	6
DAMAN & DIU	2	12
GOA	3	18
GUJARAT	75	456
HARYANA	31	161
HIMACHAL PRADESH	4	20
JAMMU & KASHMIR	23	104
JHARKHAND	31	151
KARNATAKA	64	386
KERALA	41	187
LAKSHADWEEP	2	4
MADHYA PRADESH	63	335
MAHARASHTRA	98	678
MANIPUR	2	12
MEGHALAYA	3	18
MIZORAM	1	6
NAGALAND	2	12
NCT OF DELHI	40	262
ODISHA	43	193
PUDUCHERRY	4	20
PUNJAB	41	203
RAJASTHAN	59	314
SIKKIM	2	10
TAMIL NADU	114	551
TELANGANA	43	238
TRIPURA	1	6
UTTAR PRADESH	136	729
UTTARAKHAND	12	59
WEST BENGAL	99	525
Grand Total	1191	6432

Annexure-5
NMQS-2018 Towns and number of
samples

Milk Quality Survey 2018

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Andaman & Nicobar island	South and Aman district	Port Blair	108058	5
Andhra Pradesh	Krishna district	Jaggaiahpet	53530	4
		Vijayawada	1021806	9
		Machilipatnam	169892	5
		Gudivada	118167	5
		Nuzvid	58590	4
	Guntur district	Piduguralla	63103	4
		Macherla	57290	4
		Sattenapalle	56721	4
		Guntur	670073	8
		Mangalagiri	107197	5
		Narasaraopet	117489	5
		Chilakaluripet	101398	5
		Bapatla	70777	4
		Ponnur	59913	4
		Repalle	50866	4
		Tenali	164937	5
		Tadepalle	64149	4
		Vinukonda	62550	4
		West Godavari district	Bhimavaram	146961
	Palacole		81199	4
	Narasapur		58770	4
	Eluru		218020	6
	Tadepalligudem		104032	5
	Tanuku		77962	4
	East Godavari district	Rajahmundry	341831	6
		Kakinada	312538	6
		Mandapeta	56063	4
		Pithapuram	54859	4
		Amalapuram	53231	4
	Visakhapatnam district	Anakapalle	86519	4
	East Godavari district	Samalkot	56864	4
		Tuni	53425	4
	Visakhapatnam district	GVMC	977771	8
		Bheemunipatnam	55082	4
Vizianagaram district	Vizianagaram	228720	6	
	Bobbili	56819	4	
	Parvathipuram	53844	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Andhra Pradesh	Srikakulam district	Srikakulam	135367	5
		Palasa Kasibugga	57507	4
	Prakasam district	Chirala	89378	4
		Markapur	71092	4
		Kandukur	57246	4
		Ongole	204746	6
	Sri potti sriramulu nellore district	Kavali	90099	4
		Gudur	73350	4
		Nellore	547621	8
	Chittoor district	Tirupati	293421	6
		Srikalahasti	80056	4
		Nagari	62253	4
		Puttur	54092	4
	Sri potti sriramulu nellore district	Venkatagiri	52688	4
	Chittoor district	Punganur	54746	4
		Palamaner	51450	4
		Madanapalle	180180	5
		Chittoor	160722	5
	Kadapa district	Kadapa	318916	6
		Proddatur	163970	5
		Pulivendla	65706	4
		Rayachoti	91234	4
		Rajampet	54050	4
	Anantapur district	Hindupur	151677	5
		Dharmavaram	121874	5
		Kadiri	89429	4
		Anantapur	261004	6
		Tadpatri	108171	5
		Guntakal	126270	5
		Rayadurg	61749	4
	Kurnool district	Adoni	184625	5
		Dhone	59272	4
Nandyal		211424	6	
Yemmiganur		95149	4	
Kurnool		144798	5	
Arunachal Pradesh	Papum pare	Itanagar	59490	6
Assam	Dhubri	Dhubri	63388	6
	Goalpara	Goalpara	53430	6
	Kamrup metropolitan	Guwahati	9000000	10
Bihar	Patna	Patna	1684297	16

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Bihar	Gaya	Gaya	474093	6
	Bhagalpur	Bhagalpur	400146	6
	Muzaffarpur	Muzaffarpur	354462	6
	Nalanda	Biharsharif	297268	6
	Darbhanga	Darbhanga	296039	6
	Purnia	Purnia	282248	6
	Bhojpur	Arrah	261430	6
	Begusarai	Begusarai	252008	6
	Katihar	Katihar	240838	6
	Munger	Munger	213303	6
	Saran	Chapra	202352	6
	Patna	Dinapur Nizamat	182429	5
	Saharsa	Saharsa	156540	5
	Vaishali	Hajipur	147688	5
	Rohtas	Sasaram	147408	5
	Rohtas	Dehri	137231	5
	Siwan	Siwan	135066	5
	Pashchim champaran	Bettiah	132209	5
	Purba champaran	Motihari	126158	5
	Pashchim champaran	Bagaha	112634	5
	Kishanganj	Kishanganj	105782	5
	Munger	Jamalpur	105434	5
	Jehanabad	Jehanabad	103202	5
	Buxar *	Buxar	102861	5
	Aurangabad	Aurangabad	102244	5
	Lakhisarai *	Lakhisarai	99979	4
	Nawada	Nawada	98029	4
	Jamui *	Jamui	87357	4
	Patna	Phulwari Sharif	81740	4
	Araria	Araria	79021	4
	Madhubani	Madhubani	75736	4
	Darbhanga	Benipur	75317	4
	Begusarai	Barauni	71660	4
	Begusarai	Bihat	67952	4
	Samastipur	Samastipur	67925	4
	Sitamarhi	Sitamarhi	67818	4
	Gopalganj	Gopalganj	67339	4
	Supaul *	Supaul	65437	4
	Sheikhpura *	Sheikhpura	62927	4
	Patna	Barh	61470	4
Mokameh		60678	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Bihar		Masaurhi	59803	4
	Begusarai	Teghra	56234	4
	Purba champaran	Raxaul Bazar	55536	4
	Madhepura	Madhepura	54472	4
	Buxar *	Dumraon	53618	4
	Bhagalpur	Sultanganj	52892	4
	Aurangabad	Daudnagar	52364	4
	Arwal *	Arwal	51849	4
	Nalanda	Hilsa	51052	4
	Patna	Fatwah	50961	4
	Araria	Forbesganj	50475	4
	Kaimur (bhabua) *	Bhabua	50179	4
Chandigarh	Chandigarh	Chandigarh	970602	20
Chhattisgarh	Raipur	Raipur	1027264	9
	Durg	Bhilai Nagar	627734	8
	Bilaspur	Bilaspur	365579	6
	Korba	Korba	365253	6
	Durg	Durg	268806	6
	Rajnandgaon	Rajnandgaon	163114	5
	Raigarh	Raigarh	150019	5
	Bastar	Jagdalpur	125463	5
	Surguja	Ambikapur	121071	5
	Dhamtari	Dhamtari	101677	5
	Durg	Bhilai Charoda	98008	4
	Raipur	Birgaon	96294	4
	Koriya	Chirmiri	85317	4
	Raipur	Bhatapara	57537	4
	Mahasamund	Mahasamund	54413	4
Dadra & Nagar haveli	Dadra & Nagar haveli	Silvassa	98265	4
Daman & diu	Daman	Dabhel	52578	4
Goa	South Goa	Mormugao	94393	4
		Margao	87650	4
	North Goa	Panaji	70991	4
Gujarat	Ahmadabad	Ahmadabad	5577940	53
	Surat	Surat	4467797	43
	Vadodara	Vadodara	1752371	16
	Rajkot	Rajkot	1323363	12
	Bhavnagar	Bhavnagar	605882	8
	Jamnagar	Jamnagar	600943	8
	Junagadh	Junagadh	319462	6

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Gujarat	Gandhinagar	Gandhinagar	292797	6
	Kachchh	Gandhidham	247992	6
	Kheda	Nadiad	225071	6
	Rajkot	Morvi	210451	6
	Anand	Anand	209410	6
	Mahesana	Mahesana	190753	5
	Surendranagar	Surendranagar Dudhrej	177851	5
	Junagadh	Veraval	171121	5
	Navsari	Navsari	171109	5
	Bharuch	Bharuch	169007	5
	Valsad	Vapi	163630	5
	Porbandar	Porbandar	152760	5
	Kachchh	Bhuj	148834	5
	Panch mahals	Godhra	143644	5
	Banas kantha	Palanpur	141592	5
	Valsad	Valsad	139764	5
	Gandhinagar	Kalol	134426	5
	Patan	Patan	133737	5
	Bhavnagar	Botad	130327	5
	Dohad	Dohad	118846	5
	Rajkot	Jetpur Navagadh	118302	5
	Amreli	Amreli	117967	5
	Rajkot	Gondal	112197	5
	Banas kantha	Deesa	111160	5
	Anand	Khambhat	99164	4
	Bhavnagar	Mahuva	98519	4
	Ahmadabad	Sanand	95890	4
	Bharuch	Anklesvar	89457	4
	Kachchh	Anjar	87183	4
	Rajkot	Dhoraji	84545	4
	Mahesana	Kadi	81404	4
	Navsari	Vijalpor	81245	4
	Sabar kantha	Himatnagar	81137	4
	Ahmadabad	Dholka	80945	4
	Amreli	Savarkundla	78354	4
	Mahesana	Visnagar	76753	4
	Junagadh	Keshod	76193	4
	Surendranagar	Wadhwan	75755	4
Surendranagar	Dhrangadhra	75133	4	
Junagadh	Mangrol	69779	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Gujarat	Sabar kantha	Modasa	67648	4
	Bhavnagar	Palitana	64497	4
	Panch mahals	Halol	64265	4
	Anand	Borsad	63377	4
	Jamnagar	Okha	62052	4
	Patan	Sidhpur	61867	4
	Surat	Bardoli	60821	4
	Rajkot	Upleta	58775	4
	Junagadh	Una	58528	4
	Mahesana	Unjha	57108	4
	Ahmadabad	Viramgam	55821	4
	Anand	Petlad	55330	4
	Bhavnagar	Sihor	54547	4
	Rajkot	Kotharia	53794	4
	Navsari	Bilimora	53187	4
	Kachchh	Mandvi	51376	4
Vadodara	Dabhoi	51240	4	
Haryana	Faridabad	Faridabad	1414050	13
	Gurgaon	Gurgaon	886519	8
	Rohtak	Rohtak	374292	6
	Hisar	Hisar	307024	6
	Karnal	Karnal	302140	6
	Panipat	Panipat	295970	6
	Sonipat	Sonipat	289333	6
	Yamunanagar	Yamunanagar	217071	6
	Panchkula	Panchkula	211355	6
	Bhiwani	Bhiwani	196057	5
	Ambala	Ambala	195153	5
	Sirsa	Sirsa	182534	5
	Jhajjar	Bahadurgarh	170767	5
	Jind	Jind	167592	5
	Kurukshetra	Thanesar	155152	5
	Kaithal	Kaithal	144915	5
	Rewari	Rewari	143021	5
	Palwal	Palwal	131926	5
	Yamunanagar	Jagadhri	124894	5
	Ambala	Ambala Sadar	104974	5
	Hisar	Hansi	86770	4
Mahendragarh	Narnaul	74581	4	
Fatehabad	Fatehabad	70777	4	
Panipat	Panipat Taraf	67998	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Haryana		Makhdum Zadgan		
	Sonipat	Gohana	65708	4
	Fatehabad	Tohana	63871	4
	Jind	Narwana	62090	4
	Bhiwani	Charkhi Dadri	56337	4
	Ambala	Ambala Cantt.	55370	4
	Sirsa	Mandi Dabwali	52873	4
	Palwal	Hodal	50143	4
Himachal Pradesh	Shimla	Shimla	169578	8
	Solan	Solan	39256	4
	Solan	Baddi	29911	4
	Mandi	Mandi	26422	4
Jammu & Kashmir	Srinagar	Srinagar	1180570	11
	Jammu	Jammu	576198	8
	Anantnag	Anantnag	150198	5
	Udhampur	Udhampur	84015	4
	Baramula	Baramula	71434	4
	Baramula	Sopore	71292	4
	Kathua	Kathua	59866	4
Jharkhand	Ranchi	Ranchi	1073427	10
	Ramgarh	Ramgarh Cantonment	88781	4
	Ramgarh	Saunda	81915	4
	Bokaro	Bokaro Steel City	414820	6
	Bokaro	Chas	141640	5
	Bokaro	Phusro	89178	4
	Dhanbad	Dhanbad	1162472	11
	Sahibganj	Sahibganj	88214	4
	Deoghar	Deoghar	203123	6
	Deoghar	Madhupur	55238	4
	Giridih	Giridih	114533	5
	Hazaribagh	Hazaribag	142489	5
	Kodarma	Jhumri Tilaiya	87867	4
	Gumla	Gumla	51264	4
	Palamu	Medininagar (Daltonganj)	78396	4
	Lohardaga	Lohardaga	57411	4
	Pashchimi singhbhum	Chaibasa	69565	4
	Pashchimi singhbhum	Chakardharpur	56531	4
	Purbi singhbhum	Jamshedpur	677350	8
	Purbi singhbhum	Mango	223805	6

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Jharkhand	Purbi singhbhum	Bagbera	78356	4
	Saraikela-kharswana	Adityapur	174355	5
Karnataka	Bangalore	BBMP	8495492	81
	Dharwad	Hubli-Dharwad	943788	8
	Mysore	Mysore	920550	8
	Gulbarga	Gulbarga	543147	8
	Dakshina kannada	Mangalore	499487	6
	Belgaum	Belgaum	490045	6
	Davanagere	Davanagere	434971	6
	Bellary	Bellary	410445	6
	Bijapur	Bijapur	327427	6
	Shimoga	Shimoga	322650	6
	Tumkur	Tumkur	302143	6
	Raichur	Raichur	234073	6
	Bidar	Bidar	216020	6
	Bellary	Hospet	206167	6
	Gadag	Gadag-Betigeri	172612	5
	Kolar	Robertson Pet	162230	5
	Hassan	Hassan	155006	5
	Shimoga	Bhadravati	151102	5
	Chitradurga	Chitradurga	145853	5
	Udupi	Udupi	144960	5
	Kolar	Kolar	138462	5
	Mandya	Mandya	137358	5
	Chikmagalur	Chikmagalur	118401	5
	Koppal	Gangawati	114642	5
	Bagalkot	Bagalkot	111933	5
	Haveri	Ranibennur	106406	5
	Ramanagara	Ramanagara	95167	4
	Bangalore rural	Dod Ballapur	93105	4
	Davanagere	Harihar	83219	4
	Belgaum	Gokak	79121	4
	Uttara kannada	Karwar	77139	4
	Bagalkot	Rabkavi Banhatti	77004	4
	Chikkaballapura	Chintamani	76068	4
Raichur	Sindhnur	75837	4	
Yadgir	Yadgir	74294	4	
Ramanagara	Channapatna	71942	4	
Koppal	Koppal	70698	4	
Chamarajanagar	Chamarajanagar	69875	4	
Bidar	Basavakalyan	69717	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Karnataka	Bagalkot	Jamkhandi	68938	4
	Haveri	Haveri	67102	4
	Chikkaballapura	Chikkaballapura	63652	4
	Uttara kannada	Sirsi	62882	4
	Belgaum	Nipani	62865	4
	Bagalkot	Ilkal	60242	4
	Tumkur	Tiptur	59543	4
	Tumkur	Sira	57554	4
	Kolar	Mulbagal	57276	4
	Chamarajanagar	Kollegal	57149	4
	Bangalore rural	Hosakote	56980	4
	Chitradurga	Hiriyur	56416	4
	Chitradurga	Challakere	55194	4
	Shimoga	Sagar	54550	4
	Ramanagara	Kanakapura	54014	4
	Dakshina kannada	Ullal	53773	4
	Yadgir	Shahpur	53366	4
	Hassan	Arsikere	53216	4
	Dakshina kannada	Puttur	53061	4
	Bellary	Siruguppa	52492	4
	Bagalkot	Mudhol	52199	4
	Uttara kannada	Dandeli	52069	4
	Yadgir	Shorapur	51398	4
Chikkaballapura	Sidlaghatta	51159	4	
Mysore	Hunsur	50865	4	
Mysore	Nanjangud	50598	4	
Kerala	Ernakulam	Edathala	77811	4
		Kalamassery	71038	4
		Thrippunithura	69390	4
		Vazhakkala	51242	4
		Kochi	336048	6
		Kochi	274350	6
		ERNAKULAM	200000	6
	Alappuzha	Alappuzha	240991	6
	Alappuzha	Kayamkulam	68634	4
	Thiruvananthapuram	Thiruvananthapuram	762535	8
	Kollam	Kollam	350131	6
	Thiruvananthapuram	Neyyattinkara	70850	4
	Thiruvananthapuram	Nedumangad	60161	4
	Thiruvananthapuram	Pallichal	53861	4

State Name	District Name	Town Name	Total Population of Town	No Of Samples	
Kerala	Kottayam	Kottayam	55374	4	
	Pathanamthitta	Thiruvalla	52883	4	
	Idukki	Thodupuzha	52045	4	
	Thrissur	Thrissur	315957	6	
	Thrissur	Kodungallur	60190	4	
	Thrissur	Kunnamkulam	54071	4	
	Palakkad	Palakkad	130955	5	
	Palakkad	Ottappalam	53792	4	
	Malappuram	Malappuram	101386	5	
	Malappuram		Manjeri	97102	4
			Ponnani	90491	4
			Tirurangadi	56632	4
			Thennala	56546	4
			Tirur	56058	4
			Moonniyur	55535	4
	Kozhikode		Kozhikode	550440	8
			Vadakara	75295	4
			Quilandy	71873	4
			Beypore	69752	4
			Cheruvannur	61614	4
	Kannur		Thalassery	92558	4
			Taliparamba	72465	4
			Payyannur	72111	4
			Kannur	56823	4
	Kasaragod		Kanhangad	125564	5
			Kasaragod	54172	4
Madhya Pradesh	Bhopal	Bhopal	1798218	17	
		Kolar	87882	4	
	Shajapur	Shajapur	69263	4	
	Shajapur	Shujalpur	51225	4	
	Sehore	Sehore	109118	5	
	Sehore	Ashta	53184	4	
	Dewas	Dewas	289550	6	
	Harda	Harda	74268	4	
	Hoshangabad	Hoshangabad	117988	5	
	Hoshangabad	Itarsi	99330	4	
	Betul	Betul	103330	5	
	Betul	Sarni	86141	4	
	Khandwa (east nimar)	Khandwa	200738	6	
	Burhanpur *	Burhanpur	210886	6	
	Khargone (west nimar)	Khargone	116150	5	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Madhya Pradesh	Indore	Indore	1994397	19
		Mhow Cantt	81702	4
		Bangarda Chhota	64213	4
	Dhar	Pithampur	126200	5
	Dhar	Dhar	93917	4
	Barwani	Sendhwa	56485	4
	Barwani	Barwani	55504	4
	Ratlam	Ratlam	264914	6
	Ratlam	Jaora	74907	4
	Ujjain	Ujjain	515215	8
	Ujjain	Nagda	100039	5
	Mandsaur	Mandsaur	141667	5
	Neemuch	Neemuch	128561	5
	Guna	Guna	180935	5
	Guna	Raghogarh - Vijaypur	62163	4
	Vidisha	Vidisha	155951	5
		Basoda	78289	4
		Sironj	52460	4
	Ashoknagar *	Ashoknagar	81828	4
	Shivpuri	Shivpuri	179977	5
	Sheopur	Sheopur	71951	4
	Morena	Morena	200482	6
	Bhind	Bhind	197585	5
	Bhind	Gohad	58939	4
	Gwalior	Gwalior	1054420	10
	Gwalior	Dabra	61277	4
	Datia	Datia	100284	5
	Chhatarpur	Chhatarpur	142128	5
	Tikamgarh	Tikamgarh	79106	4
	Panna	Panna	59091	4
	Rewa	Rewa	235654	6
	Satna	Satna	282977	6
	Sidhi	Sidhi	54331	4
	Singrauli *	Singrauli	220257	6
Katni	Murwara (Katni)	221883	6	
Shahdol	Shahdol	86681	4	
Jabalpur	Jabalpur	1081677	10	
Jabalpur	Jabalpur Cantt	72261	4	
Balaghat	Balaghat	84261	4	
Mandla	Mandla	55133	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Madhya Pradesh	Seoni	Seoni	102343	5
	Chhindwara	Chhindwara	175052	5
	Narsimhapur	Narsimhapur	59966	4
	Damoh	Damoh	139561	5
	Sagar	Sagar	274556	6
	Sagar	Bina- Etawa	64529	4
	Sagar	Khurai	51108	4
	Raisen	Mandideep	59654	4
Maharashtra	Mumbai suburban	Greater Mumbai Part I	9356962	90
	Pune	Pune	3124458	30
	Nagpur	Nagpur	2405665	23
	Thane	Thane	1841488	17
	Pune	Pimpri Chinchwad	1727692	16
	Nashik	Nashik	1486053	14
	Thane	Kalyan-Dombivli	1247327	12
	Thane	Vasai-Virar City	1222390	11
	Aurangabad	Aurangabad	1175116	11
	Thane	Navi Mumbai	1120547	10
	Solapur	Solapur	951558	8
	Thane	Mira-Bhayandar	809378	8
	Thane	Bhiwandi Nizampur	709665	8
	Amravati	Amravati	647057	8
	Nanded	Nanded Waghala	550439	8
	Kolhapur	Kolhapur	549236	8
	Thane	Ulhasnagar	506098	8
	Sangli	Sangli Miraj Kupwad	502793	8
	Nashik	Malegaon	481228	6
	Jalgaon	Jalgaon	460228	6
	Akola	Akola	425817	6
	Latur	Latur	382940	6
	Dhule	Dhule	375559	6
	Ahmadnagar	Ahmadnagar	350859	6
	Chandrapur	Chandrapur	320379	6
	Parbhani	Parbhani	307170	6
Kolhapur	Ichalkaranji	287353	6	
Jalna	Jalna	285577	6	
Thane	Ambarnath	253475	6	
Raigarh	Navi Mumbai	195373	5	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Maharashtra		Panvel Raigarh		
	Jalgaon	Bhusawal	187421	5
	Raigarh	Panvel	180020	5
	Thane	Badlapur	174226	5
	Bid	Bid	146709	5
	Gondiya *	Gondiya	132813	5
	Satara	Satara	120195	5
	Solapur	Barshi	118722	5
	Yavatmal	Yavatmal	116551	5
	Amravati	Achalpur	112311	5
	Osmanabad	Osmanabad	111825	5
	Nandurbar	Nandurbar	111037	5
	Wardha	Wardha	106444	5
	Latur	Udgir	103550	5
	Wardha	Hinganghat	101805	5
	Solapur	Pandharpur	98923	4
	Jalgaon	Chalisingaon	97551	4
	Jalgaon	Amalner	95994	4
	Buldana	Khamgaon	94191	4
	Akola	Akot	92637	4
	Bhandara	Bhandara	91845	4
	Bid	Parli	90975	4
	Chandrapur	Ballarpur	89452	4
	Ahmadnagar	Shrirampur	89282	4
	Nagpur	Kamptee	86793	4
	Hingoli *	Hingoli	85103	4
	Raigarh	Kharghar	80612	4
	Nashik	Manmad	80058	4
	Pune	Kirkee	78684	4
	Washim	Washim	78387	4
	Dhule	Shirpur-Warwade	76905	4
	Ratnagiri	Ratnagiri	76229	4
	Bid	Ambejogai	73975	4
	Yavatmal	Pusad	73046	4
Jalgaon	Chopda	72783	4	
Pune	Pune	71781	4	
Raigarh	Khopoli	71141	4	
Thane	Palghar	68930	4	
Hingoli *	Basmath	68846	4	
Washim	Karanja	67907	4	
Buldana	Malkapur	67740	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Maharashtra	Buldana	Buldana	67431	4
	Sangli	Uran Islampur	67391	4
	Ahmadnagar	Sangamner	65804	4
	Aurangabad	Wadgaon Kolhati	65620	4
	Nashik	Sinnar	65299	4
	Ahmadnagar	Kopargaon	65273	4
	Nandurbar	Shahade	61376	4
	Chandrapur	Bhadravati	60565	4
	Buldana	Shegaon	59672	4
	Jalgaon	Pachora	59609	4
	Yavatmal	Wani	58840	4
	Aurangabad	Sillod	58230	4
	Buldana	Chikhli	57889	4
	Pune	Lonavala	57698	4
	Bid	Bid (Rural)	56531	4
	Pune	Talegaon Dabhade	56435	4
	Amravati	Anjangaon	56380	4
	Ratnagiri	Chiplun	55139	4
	Nanded	Deglur	54493	4
	Pune	Baramati	54415	4
	Gadchiroli	Gadchiroli	54152	4
	Nagpur	Wadi	54048	4
	Nashik	Deolali	54027	4
	Nagpur	Umred	53971	4
Satara	Karad	53879	4	
Satara	Phaltan	52118	4	
Nashik	Ozar	51297	4	
Thane	Dahanu	50287	4	
Manipur	Imphal west	Imphal (MCI + OG) (Major part)	193459	6
	Imphal east	Imphal (MCI + OG) (Minor part)	83737	6
Meghalaya	East khasi hills	Shillong	143229	6
	West garo hills	Tura	74858	6
	East khasi hills	Mawlai	55012	6
Mizoram	Aizawl	Aizawl	293416	6
	Lunglei	Lunglei	57011	4
Nagaland	Dimapur	Dimapur	122834	5
	Kohima	Kohima	99039	4
NCT of Delhi	Delhi	DMC (U)	11034555	106
	North west	Kirari Suleman	283211	6

State Name	District Name	Town Name	Total Population of Town	No Of Samples
NCT of Delhi		Nagar		
	Delhi	N.D.M.C.	257803	6
	North-east	Karawal Nagar	224281	6
	West	Nangloi Jat	205596	6
	North west	Bhalswa Jahangir Pur	197148	5
	North west	Sultan Pur Majra	181554	5
	West	Hastsal	176877	5
	South	Deoli	169122	5
	East	Dallo Pura	154791	5
	North	Burari	146190	5
	North-east	Mustafabad	127167	5
	North-east	Gokal Pur	121870	5
	North-east	Mandoli	120417	5
	South-west	Delhi Cantonment	110351	5
	North-east	Sadat Pur Gujran	97641	4
	North west	Pooth Kalan	96002	4
	East	Gharoli	92540	4
	South	Molar Band	91402	4
	East	Chilla Saroda Bangar	83217	4
	North-east	Khajoori Khas	76640	4
	South-west	Kapas Hera	74073	4
	North west	Bawana	73680	4
	South	Mithe Pur	69837	4
	South	Pul Pehlad	69657	4
	North-east	Ziauddin Pur	68993	4
	South	Taj Pul	68796	4
	South	Jait Pur	59330	4
	South-west	Roshan Pura alias Dichaon Khurd	57217	4
	North	Mukand Pur	57135	4
	North west	Sahibabad Daulat Pur	54773	4
	North-east	Jaffrabad	54601	4
West	Mundka	54541	4	
North west	Begum Pur	53682	4	
West	Bapraula	52744	4	
North west	Nithari	50464	4	
Odisha	Khordha	Bhubaneswar	900000	8
	Cuttack	Cuttack	600000	8

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Odisha	Ganjam	BRAHMAPUR	350000	6
	Sundargarh	Raurkela	320040	6
	Sundargarh	Raurkela	216410	6
	Puri	PURI	200000	6
	Sambalpur	Sambalpur	189366	5
	Baleshwar	Baleshwar	144373	5
	Bhadrak	Bhadrak	121338	5
	Mayurbhanj	Baripada	116849	5
	Balangir	Balangir	98238	4
	Jharsuguda	Jharsuguda	97730	4
	Koraput	Jeypur	84830	4
	Bargarh	Bargarh	80625	4
	Jharsuguda	Brajarajnagar	80403	4
	Rayagada	Rayagada	71208	4
	Kalahandi	Bhawanipatna	69045	4
	Jagatsinghapur	Paradip	68585	4
	Dhenkanal	Dhenkanal	67414	4
	Kendujhar	Barbil	66540	4
	Khordha	Jatani	63697	4
	Kendujhar	Kendujhar	60590	4
Jajapur	Byasanagar	56946	4	
Cuttack	Choudwar	52999	4	
Sundargarh	Rajagangapur	51362	4	
Koraput	Sunabeda	50394	4	
Puducherry	Puducherry	Ozhukarai	300104	6
	Puducherry	Puducherry	244377	6
	Karaikal	Karaikal	86838	4
	Yanam	Yanam	55626	4
Punjab	Ludhiana	Ludhiana	1618879	15
	Amritsar	Amritsar	1,183,549	11
	Jalandhar	Jalandhar	862886	8
	Patiala	Patiala	446246	6
	Bathinda	Bathinda	285788	6
	Sahibzada ajit singh nagar	SAS Nagar (Mohali)	176,170	5
	Hoshiarpur	Hoshiarpur	168653	5
	Moga	Moga	163397	5
	Gurdaspur	Pathankot	160509	5
	Gurdaspur	Batala	158621	5
	Firozpur	Abohar	145302	5
	Sangrur	Malerkotla	135424	5

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Punjab	Ludhiana	Khanna	128137	5
	Kapurthala	Phagwara	117,966	5
	Muktsar	Muktsar	116747	5
	Barnala	Barnala	116449	5
	Firozpur	Firozpur	110313	5
	Kapurthala	Kapurthala	98916	4
	Sahibzada ajit singh nagar	Zirakpur	95553	4
	Patiala	Rajpura	92301	4
	Faridkot	Kot Kapura	91979	4
	Sangrur	Sangrur	88043	4
	Faridkot	Faridkot	87695	4
	Mansa	Mansa	82956	4
	Fatehgarh sahib	Gobindgarh	82266	4
	Gurdaspur	Gurdaspur	81448	4
	Muktsar	Malout	81406	4
	Firozpur	Fazilka	76492	4
	Sahibzada ajit singh nagar	Kharar	74460	4
	Sangrur	Sunam Udham Singh Wala	69069	4
	Patiala	Nabha	67972	4
	Tarn taran	Tarn Taran	66847	4
	Ludhiana	Jagraon	65240	4
	Fatehgarh sahib	Sirhind Fatehgarh Sahib	58097	4
	Rupnagar	Rupnagar	56038	4
	Sangrur	Dhuri	55225	4
Patiala	Samana	54072	4	
Firozpur	Firozpur Cantt	53199	4	
Bathinda	Rampura Phul	51023	4	
Sahibzada ajit singh nagar	Naya Gaon	50869	4	
Rajasthan	Dausa	Dausa	85960	4
	Jaipur	Chomu	64417	4
	Sawai madhopur	Sawai Madhopur	121106	5
	Sawai madhopur	Gangapur City	119090	5
	Karauli	Hindaun	105452	5
	Karauli	Karauli	82960	4
	Dhaulpur	Dhaulpur	133075	5
	Dhaulpur	Bari	62721	4

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Rajasthan	Bharatpur	Bharatpur	252838	6
	Alwar	Alwar	322568	6
	Alwar	Bhiwadi	104921	5
	Sikar	Sikar	244497	6
	Sikar	Fatehpur	92595	4
	Sikar	Lachhmangarh	53392	4
	Jhunjhunun	Jhunjhunun	118473	5
	Jhunjhunun	Nawalgarh	63948	4
	Churu	Churu	120157	5
	Churu	Sardarshahar	95911	4
	Churu	Rajgarh	59193	4
	Churu	Sujangarh	101523	5
	Churu	Ratangarh	71124	4
	Hanumangarh	Hanumangarh	150958	5
	Ganganagar	Ganganagar	237780	6
	Ganganagar	Suratgarh	70536	4
	Bikaner	Bikaner	644406	8
	Bikaner	Nokha	62699	4
	Bikaner	Dungargarh	53294	4
	Jaisalmer	Jaisalmer	65471	4
	Jodhpur	Jodhpur	1056191	10
	Nagaur	Nagaur	105218	5
	Nagaur	Makrana	94487	4
		Ladnu	65575	4
		Kuchaman City	61969	4
		Didwana	53749	4
	Ajmer	Ajmer	542321	8
		Kishangarh	154886	5
		Beawar	151152	5
		Nasirabad	50804	4
	Pali	Pali	230075	6
	Barmer	Barmer	96225	4
	Barmer	Balotra	74496	4
	Jalor	Jalor	54081	4
Sirohi	Abu Road	55599	4	
Rajsamand	Rajsamand	67798	4	
Udaipur	Udaipur	451100	6	
Bhilwara	Bhilwara	359483	6	
Tonk	Tonk	165294	5	
Bundi	Bundi	104919	5	
Kota	Kota	1001694	9	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Rajasthan	Chittaurgarh	Chittaurgarh	116406	5
	Chittaurgarh	Nimbehara	61949	4
	Jhalawar	Jhalawar	66919	4
	Banswara	Banswara	101017	5
	Baran	Baran	117992	5
	Jaipur	Jaipur	3046163	29
Sikkim	East district	Gangtok	100286	5
Tamil Nadu	Chennai	Chennai	4646732	44
	Thiruvallur	Madavaram	119105	5
		Maduravoyal	86195	4
		Ramapuram	52295	4
		Tiruvottiyur	249446	6
		Nerkunram	59790	4
		Thiruvallur	56074	4
		Ambattur	466205	6
		Avadi	345996	6
		Tiruverkadu	64698	4
	Poonamallee	60607	4	
	Cuddalore	Panruti	60323	4
		Cuddalore	173636	5
		Neyveli	105731	5
		Virudhachalam	73585	4
		Chidambaram	62153	4
	Viluppuram	Viluppuram	96253	4
		Tindivanam	72796	4
		Kallakurichi	52507	4
	Tiruvannamalai	Tiruvannamalai	145278	5
		Arani	63671	4
	Kancheepuram	Pallavaram	233984	6
		Kancheepuram	164384	5
		Pammal	75870	4
		Kundrathur	54986	4
		Alandur	164430	5
		Oggiamduraipakkam	76600	4
		Puzhithivakkam (Ullagaram)	53322	4
		Tambaram	174787	5
		Maraimalainagar	81872	4
Chengalpattu	62579	4		

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Tamil Nadu	Vellore	Vellore	185803	5
		Sathuvachari	56951	4
		Arcot	55955	4
		Arakonam	78395	4
		Ranipettai	50764	4
		Ambur	114608	5
		Vaniyambadi	95061	4
		Gudiyatham	91558	4
		Pernampattu	51271	4
		Tirupathur	64125	4
	Krishnagiri	Hosur	116821	5
	Krishnagiri	Krishnagiri	71323	4
	Salem	Mettur	52813	4
	Dharmapuri	Dharmapuri	68619	4
	Salem	Salem	829267	8
		Attur	61793	4
		Edappadi	54823	4
	Namakkal	Namakkal	55145	4
		Rasipuram	50244	4
		Tiruchengode	95335	4
		Kumarapalayam	71594	4
	Erode	Erode	157101	5
		Veerappanchatiram	84453	4
		Kasipalayam (E)	73425	4
		Gobichettipalayam	59523	4
		Periyasemur	55282	4
	Coimbatore	Coimbatore	1050721	10
		Kurichi	123667	5
		Kuniamuthur	95924	4
		Pollachi	90180	4
		Goundampalayam	83908	4
		Valparai	70859	4
		Mettupalayam	69213	4
Tiruppur	Tiruppur	444352	6	
	Velampalayam	87427	4	
	S.Nallur	70115	4	
	Neripperichal	53579	4	
	Veerapandi	50301	4	
	Udumalaipettai	61133	4	
	Dharapuram	56007	4	
Tiruchirappalli	Tiruchirappalli	847387	8	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Tamil Nadu	Thanjavur	Thanjavur	222943	6
		Kumbakonam	140156	5
		Pattukkottai	73135	4
		Mannargudi	66999	4
		Thiruvarur	58301	4
	Nagapattinam	Nagapattinam	102905	5
	Pudukkottai	Pudukkottai	117630	5
	Nagapattinam	Mayiladuthurai	85632	4
	Dindigul	Dindigul	207327	6
	Dindigul	Palani	70467	4
	Theni	Theni Allinagaram	94453	4
	Theni	Bodinayakanur	75675	4
	Theni	Kambam	68090	4
	Madurai	Madurai	1017865	9
		Avaniapuram	89635	4
		Anaiyur	63917	4
		Thirumangalam	51194	4
		Thiruparankundram	50004	4
	Sivaganga	Karaikkudi	106714	5
		Devakottai	51865	4
	Virudhunagar	Aruppukkottai	87722	4
		Virudhunagar	72296	4
		Srivilliputhur	75396	4
		Sivakasi	71040	4
		Thiruthangal	55362	4
		Rajapalayam	130442	5
	Tirunelveli	Tirunelveli	473637	6
		Tenkasi	70545	4
		Kadayanallur	90364	4
		Puliankudi	66034	4
		Sankarankoil	57277	4
	Kanniyakumari	Nagercoil	224849	6
	Thoothukkudi	Thoothukkudi	237830	6
Thoothukkudi	Kovilpatti	95057	4	
Ramanathapuram	Paramakudi	95579	4	
Ramanathapuram	Ramanathapuram	61440	4	
The nilgiris	Udhagamandalam	88430	4	
Karur	Karur	70980	4	
Karur	Inam Karur	67131	4	
Karur	Thanthoni	53854	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Telangana	Hyderabad district	GHMC 1	460877	6
	Warangal district	Hanamkonda Mandal	364611	6
	Nizamabad district	Nizamabad	311152	6
	Warangal district	Warangal	297078	6
	Karimnagar district	Karimnagar	283657	6
	Hyderabad district	GHMC 2	271385	6
	Karimnagar district	Ramagundam	237559	6
	Hyderabad district	Secunderabad	217910	6
		Cyberabad	200000	6
		Uppal	200000	6
		Pantancheru	200000	6
	Mahbubnagar district	Mahbubnagar	190400	5
	Khammam district	Khammam	184210	5
	Nalgonda district	Nalgonda	154326	5
	Adilabad district	Adilabad	117167	5
	Nalgonda district	Suryapet	106805	5
	Nalgonda district	Miryalaguda	104918	5
	Karimnagar district	Jagtial	103930	5
	Adilabad district	Mancherial	89935	4
	Adilabad district	Nirmal	88433	4
	Karimnagar district	Sircilla	83186	4
	Nizamabad district	Kamareddy	80315	4
	Khammam district	Palwancha	80199	4
	Khammam district	Kothagudem	79819	4
	Nizamabad district	Bodhan	77573	4
	Medak district	Sangareddy	72344	4
	Medak district	Zahirabad	71166	4
	Medak district	Siddipet	66737	4
	Karimnagar district	Koratla	66504	4
	Rangareddy district	Tandur	65115	4
	Nalgonda district	Kodad	64234	4
	Nizamabad district	Armur	64023	4
	Mahbubnagar district	Gadwal	63177	4
	Mahbubnagar district	Wanaparthy	60949	4
	Adilabad district	Kagaznagar	57583	4
Adilabad district	Bellampalle	53958	4	
Khammam district	Khanapuram Haveli	53442	4	
Nalgonda district	Bhongir	53339	4	
Rangareddy district	Vicarabad	53143	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Telangana	Warangal district	Jangaon	52394	4
	Adilabad district	Mandamarri	52352	4
	Karimnagar district	Metpalle	50902	4
	Khammam district	Bhadrachalam	50087	4
Tripura	West tripura	Agartala M.CL.	400004	6
Uttar Pradesh	Lucknow	Lucknow	2817105	27
	Kanpur nagar	Kanpur	2768057	26
	Ghaziabad	Ghaziabad	1648643	15
	Agra	Agra (MC)	1585704	15
	Meerut	Meerut	1305429	12
	Varanasi	Varanasi	1198491	11
	Allahabad	Allahabad	1168385	11
	Bareilly	Bareilly	904797	8
	Moradabad	Moradabad	887871	8
	Aligarh	Aligarh	874408	8
	Saharanpur	Saharanpur	705478	8
	Gorakhpur	Gorakhpur	673446	8
	Gautam buddha nagar	Noida	637272	8
	Firozabad	Firozabad	604214	8
	Ghaziabad	Loni	516082	8
	Jhansi	Jhansi	505693	8
	Muzaffarnagar	Muzaffarnagar	392768	6
	Mathura	Mathura	349909	6
	Shahjahanpur	Shahjahanpur	329736	6
	Rampur	Rampur	325313	6
	Mau	Maunath Bhanjan	278745	6
	Farrukhabad	Farrukhabad-cum-Fatehgarh	276581	6
	Ghaziabad	Hapur	262983	6
	Etawah	Etawah	256838	6
	Mirzapur	Mirzapur-cum-Vindhyachal	234871	6
	Bulandshahar	Bulandshahr	230024	6
	Moradabad	Sambhal	220813	6
	Jyotiba phule nagar	Amroha	198471	5
	Hardoi	Hardoi	197029	5
	Fatehpur	Fatehpur	193193	5
	Rae bareli	Rae Bareli	191316	5
Jalaun	Orai	190575	5	
Ghaziabad	Khora	190005	5	
Bahraich	Bahraich	186223	5	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Uttar Pradesh	Jaunpur	Jaunpur	180362	5
	Unnao	Unnao	177658	5
	Sitapur	Sitapur	177234	5
	Faizabad	Faizabad	165228	5
	Banda	Banda	160473	5
	Budaun	Budaun	159285	5
	Kheri	Lakhimpur	151993	5
	Mahamaya nagar	Hathras	143020	5
	Mainpuri	Mainpuri	136557	5
	Lalitpur	Lalitpur	133305	5
	Ghaziabad	Modinagar	130325	5
	Deoria	Deoria	129479	5
	Pilibhit	Pilibhit	127988	5
	Bulandshahar	Khurja	121207	5
	Ghazipur	Ghazipur	121020	5
	Etah	Etah	118517	5
	Basti	Basti	114657	5
	Moradabad	Chandausi	114383	5
	Gonda	Gonda	114046	5
	Ambedkar nagar	Akbarpur	111447	5
	Azamgarh	Azamgarh	110983	5
	Chandauli	Mughalsarai	109650	5
	Kanpur nagar	Kanpur	108534	5
	Sultanpur	Sultanpur	107640	5
	Firozabad	Shikohabad	107404	5
	Muzaffarnagar	Shamli	107266	5
	Ballia	Ballia	104424	5
	Baghpat	Baraut	103764	5
	Gautam buddha nagar	Greater Noida	102054	5
	Kanshiram nagar *	Kasganj	101277	5
	Saharanpur	Deoband	97037	4
	Ambedkar nagar	Tanda	95516	4
	Bijnor	Nagina	95246	4
	Mahoba	Mahoba	95216	4
	Ghaziabad	Muradnagar	95208	4
Sant ravidas nagar (bhadohi)	Bhadohi	94620	4	
Meerut	Meerut	93312	4	
Bijnor	Bijnor	93297	4	
Gautam buddha nagar	Dadri	91189	4	
Muzaffarnagar	Kairana	89000	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Uttar Pradesh	Bijnor	Najibabad	88535	4
	Auraiya	Auraiya	87736	4
	Kannauj	Kannauj	84862	4
	Unnao	Gangaghat	84072	4
	Ghaziabad	Pilkhuwa	83736	4
	Bijnor	Chandpur	83441	4
	Balrampur	Balrampur	82488	4
	Barabanki	Nawabganj	81486	4
	Meerut	Mawana	81443	4
	Bulandshahar	Sikandrabad	81028	4
	Hardoi	Shahabad	80226	4
	Bareilly	Faridpur	78249	4
	Pratapgarh	Bela Pratapgarh	76133	4
	Pilibhit	Bisalpur	73551	4
	Muzaffarnagar	Khatauli	72949	4
	Azamgarh	Mubarakpur	70463	4
	Bareilly	Baheri	68413	4
	Budaun	Sahaswan	66204	4
	Hamirpur	Rath	65056	4
	Mathura	Vrindavan	63005	4
	Lucknow	Lucknow	63003	4
	Bijnor	Sherkot	62226	4
	Budaun	Ujhani	62039	4
	Sitapur	Laharpur	61990	4
	Bijnor	Kiratpur	61946	4
	Jhansi	Mauranipur	61449	4
	Shahjahanpur	Tilhar	61444	4
	Jyotiba phule nagar	Hasanpur	61243	4
	Kannauj	Chhibramau	60986	4
	Kheri	Gola Gokaran Nath	60172	4
	Mathura	Kosi Kalan	60074	4
	Bulandshahar	Jahangirabad	59858	4
	Saharanpur	Gangoh	59279	4
	Hardoi	Sandila	58346	4
Meerut	Sardhana	58252	4	
Chitrakoot	Chitrakoot Dham (Karwi)	57402	4	
Jalaun	Jalaun	56909	4	
Faizabad	Ayodhya	55890	4	
Sitapur	Biswan	55780	4	
Bareilly	Aonla	55629	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
Uttar Pradesh	Jyotiba phule nagar	Gajraula	55048	4
	Muzaffarnagar	Budhana	53722	4
	Jalaun	Konch	53412	4
	Bijnor	Seohara	53296	4
	Agra	Agra (CB)	53053	4
	Jalaun	Kalpi	51670	4
	Bijnor	Dhampur	50997	4
	Bulandshahar	Gulaothi	50823	4
	Sitapur	Mahmudabad	50777	4
	Firozabad	Tundla	50423	4
	Aligarh	Atrauli	50412	4
	Baghpat	Baghpat	50310	4
Uttarakhand	Dehradun	Dehradun (MC)	574840	8
	Dehradun	Dehradun (CB)	52716	4
	Dehradun	Rishikesh	70499	4
	Hardwar	Hardwar	231338	6
	Hardwar	Roorkee	118200	5
	Hardwar	Manglaur	52971	4
	Nainital	Haldwani-cum-Kathgodam	201461	6
	Nainital	Ramnagar	54787	4
	Pithoragarh	Pithoragarh	56044	4
	Udham singh nagar	Rudrapur	154554	5
	Udham singh nagar	Kashipur	121623	5
	Udham singh nagar	Jaspur	50523	4
West Bengal	Kolkata	Kolkata	4496694	43
	Haora	Haora	1077075	10
	Barddhaman	Durgapur	566517	8
	Barddhaman	Asansol	563917	8
	South twenty four parganas	Maheshtala	448317	6
	South twenty four parganas	Rajpur Sonarpur	424368	6
	North twenty four parganas	South DumDum	403316	6
	North twenty four parganas	Rajarhat Gopalpur	402844	6
	North twenty four parganas	Bhatpara	386019	6
	North twenty four parganas	Panihati	377347	6

State Name	District Name	Town Name	Total Population of Town	No Of Samples
West Bengal	North twenty four parganas	Kamarhati	330211	6
	Barddhaman	Barddhaman	314265	6
	Barddhaman	Kulti	313809	6
	Haora	Bally	293373	6
	North twenty four parganas	Barasat	278435	6
	North twenty four parganas	North Dum Dum	249142	6
	North twenty four parganas	Baranagar	245213	6
	Haora	Uluberia	235345	6
	Jalpaiguri	Siliguri	218718	6
	North twenty four parganas	Naihati	217900	6
	North twenty four parganas	Bidhannagar	215514	6
	Paschim medinipur	Kharagpur	207604	6
	Maldah	English Bazar	205521	6
	Purba medinipur	Haldia	200827	6
	North twenty four parganas	Madhyamgram	196127	5
	Murshidabad	Berhampore	195223	5
	Uttar dinajpur	Raiganj	183612	5
	Hugli	Serampore	181842	5
	Hugli	Hugli-Chinsurah	179931	5
	Paschim medinipur	Medinipur	169264	5
	Hugli	Chandannagar	166867	5
	Hugli	Uttarpara Kotrung	159147	5
	Dakshin dinajpur *	Balurghat	153279	5
	Nadia	Krishnanagar	153062	5
	North twenty four parganas	Barrackpore	152783	5
	Nadia	Santipur	151777	5
	Barddhaman	Jamuria	149220	5
	North twenty four parganas	Habra	147221	5
	Bankura	Bankura	137386	5
	North twenty four parganas	North Barrackpore	132806	5
North twenty four parganas	Kanchrapara	129576	5	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
West Bengal	Barddhaman	Raniganj	129441	5
	Nadia	Nabadwip	125543	5
	North twenty four parganas	Basirhat	125254	5
	North twenty four parganas	Halisahar	124939	5
	Hugli	Rishra	124577	5
	North twenty four parganas	Ashokenagar Kalyangarh	121592	5
	Hugli	Baidyabati	121110	5
	Puruliya	Puruliya	121067	5
	Jalpaiguri	Dabgram	119040	5
	Darjiling	Darjiling	118805	5
	North twenty four parganas	Titagarh	116541	5
	North twenty four parganas	Dum Dum	114786	5
	Haora	Bally	113377	5
	Hugli	Champdani	111251	5
	North twenty four parganas	Bongaon	108864	5
	North twenty four parganas	Khardah	108496	5
	Jalpaiguri	Jalpaiguri	107341	5
	Hugli	Bansberia	103920	5
	Hugli	Bhadreswar	101477	5
	Nadia	Kalyani	100575	5
	Murshidabad	Dhulian	95706	4
	Nadia	Chakdaha	95203	4
	Hugli	Dankuni	94936	4
	Purba medinipur	Contai	92226	4
	Murshidabad	Jangipur	88165	4
	North twenty four parganas	Garulia	85336	4
	Maldah	Old Malda	84012	4
	Paschim medinipur	Kharagpur Rly. Settlement	82735	4
	Barddhaman	Katwa	81615	4
	Birbhum	Bolpur	80210	4
Koch bihar	Koch Bihar	77935	4	
North twenty four parganas	New Barrackpore	76846	4	

State Name	District Name	Town Name	Total Population of Town	No Of Samples
West Bengal	South twenty four parganas	Budge Budge	76837	4
	Hugli	Konnagar	76172	4
	Nadia	Ranaghat	75365	4
	Birbhum	Suri	67864	4
	Bankura	Bishnupur	67783	4
	Hugli	Arambag	66175	4
	Purba medinipur	Tamluk	65306	4
	Jalpaiguri	Alipurduar	65232	4
	Haora	Bankra	63957	4
	Paschim medinipur	Jhargram	61712	4
	Jalpaiguri	Kharia	61661	4
	Nadia	Gayespur	58998	4
	Jalpaiguri	Binnaguri	58840	4
	Purba medinipur	Panskura	57932	4
	Birbhum	Rampurhat	57833	4
	Barddhaman	Kalna	56722	4
	Dakshin dinajpur *	Gangarampur	56217	4
	Nadia	Phulia	55653	4
	Murshidabad	Kandi	55632	4
	Paschim medinipur	Ghatal	54591	4
	Uttar dinajpur	Islampur	54340	4
	Uttar dinajpur	Kaliaganj	53530	4
South twenty four parganas	Baruipur	53128	4	
North twenty four parganas	Baduria	52493	4	
Murshidabad	Jiaganj-Azimganj	51790	4	
Lakswadweep		Lakswadweep		6

Annexure-6
NMQS-2018
Real time data platform

Real time data platform

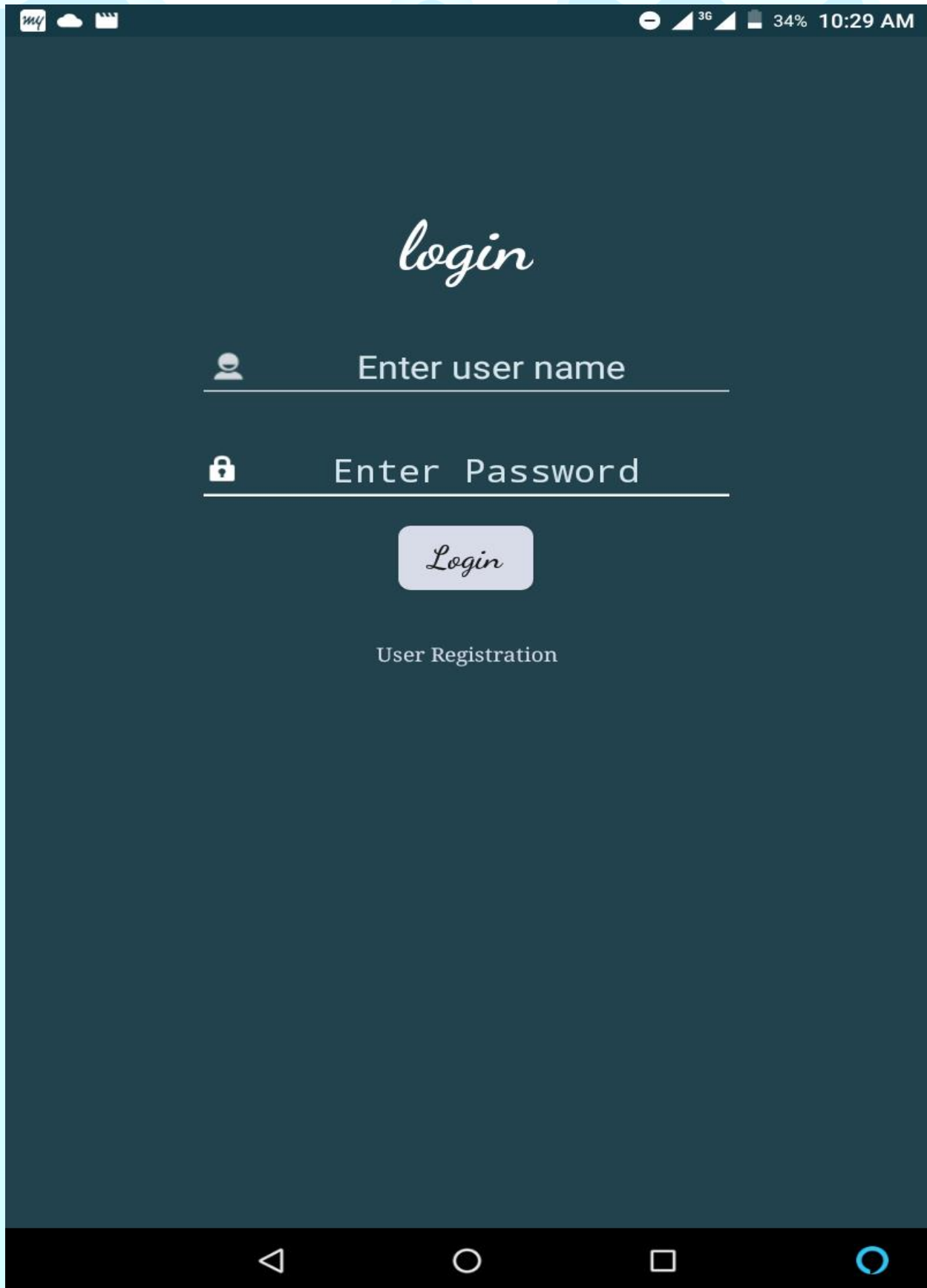
State of the art real time data platform was developed for capturing the data online with user access using login and password for traceability of sampler.

The software was loaded into tabs and provided 2 different network SIM cards for internet connectivity for online data entry. For towns where internet was not available, an option was given to save the data of sampling and data syncing was done after gaining the network to tab.

The following information was captured in the software during sample collection.

- Date of sampling
- Time of sampling
- State
- District
- Town name
- GPS location
- Photograph
- Point of collection (Local dairy farm, Milk vendor, Local retail shops, Milk mandis, processing units)
- Name of the person/dairy form/ processing unit and contact numbers wherever possible,
- Brand name, batch no. and expiry in case of retail packs
- Temperature at time of collection
- Sampling person details

Snapshots of software windows

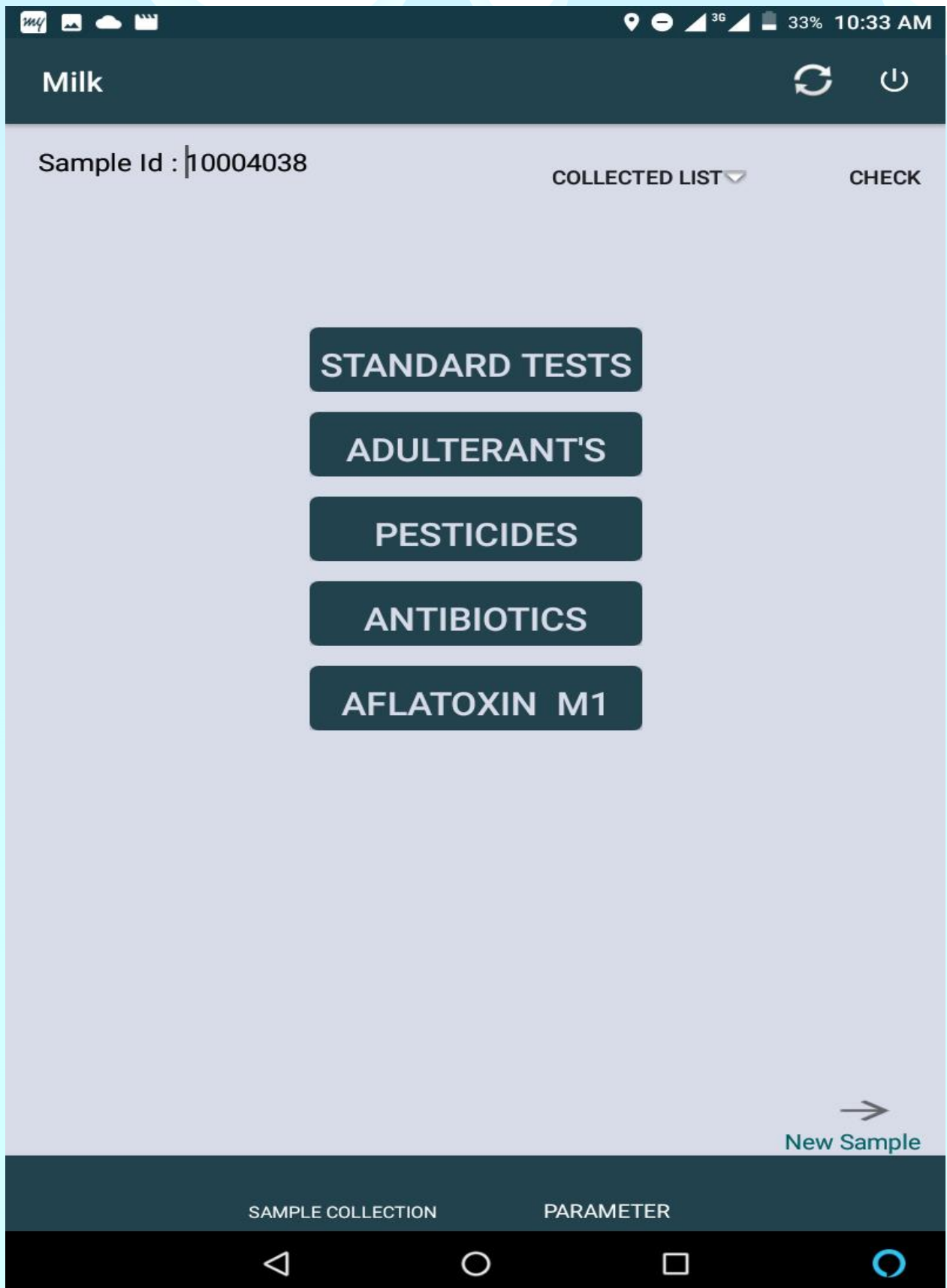


SAMPLE COLLECTION	
Date Of Sampling 12-12-2018	Time Of Sampling 10:29:46
State Code select	District Code select
Town Name select	Sample Id
GET LOCATION	CAPTURE PHOTO
Select : <input type="radio"/> Dairy Farm <input type="radio"/> Milk Vendor <input type="radio"/> Milk Mandi <input type="radio"/> Retail Shop <input type="radio"/> Processing Unit	Name Sample Type
Qty Collected	Temperature At Time Of Collection <input type="radio"/> Ambient <input type="radio"/> Chilled
Remark	Text

SAMPLE COLLECTION

PARAMETER

Field level analysis was done immediately after collection and results were input in following fields in data plat form.



Milk

Sample Id : 10004038

COLLECTED LIST

CHECK

Standard tests

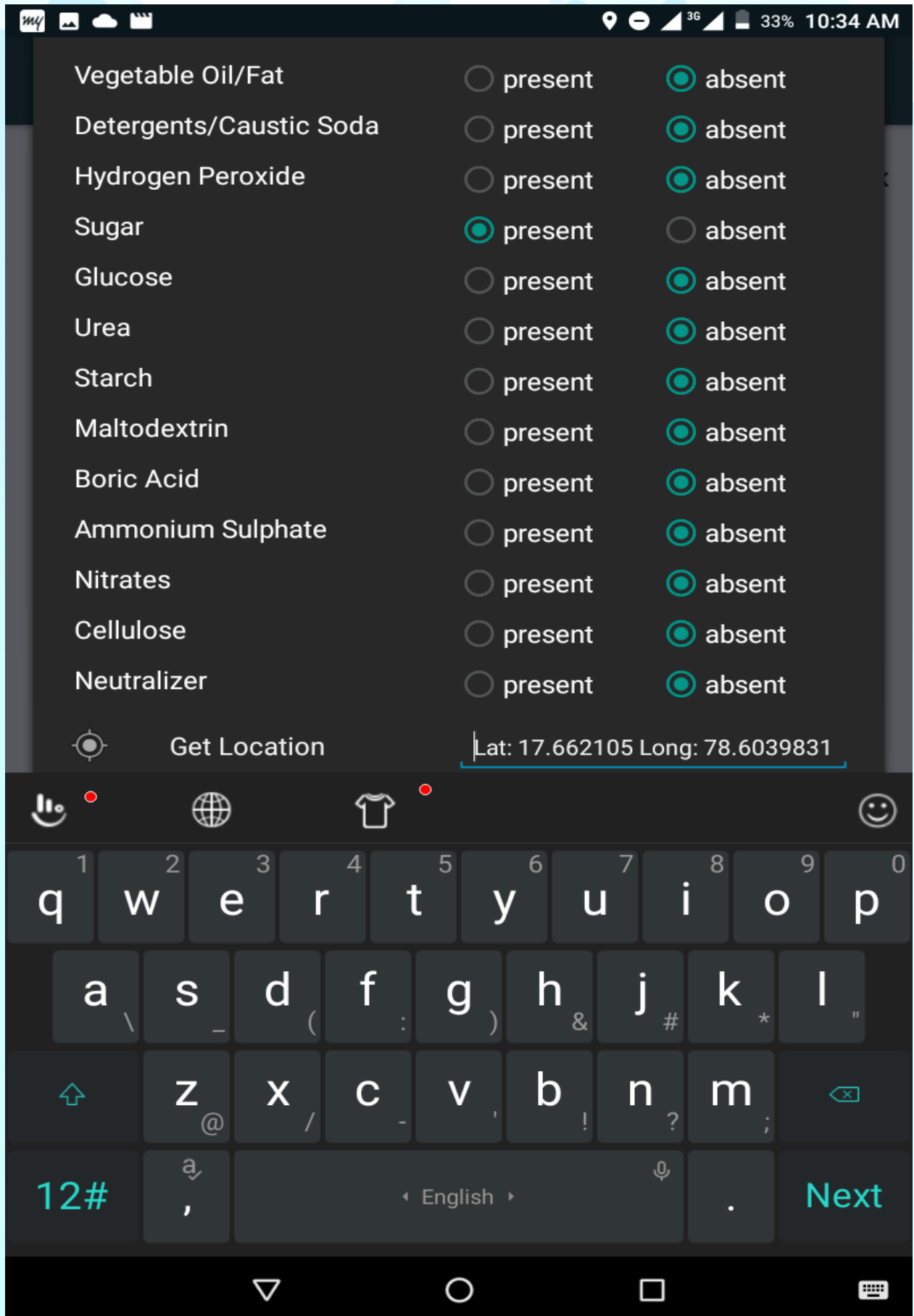
Fat :	10.33
SNF :	8.40
Protein :	3.18
Excess Water :	<input type="radio"/> present <input checked="" type="radio"/> absent

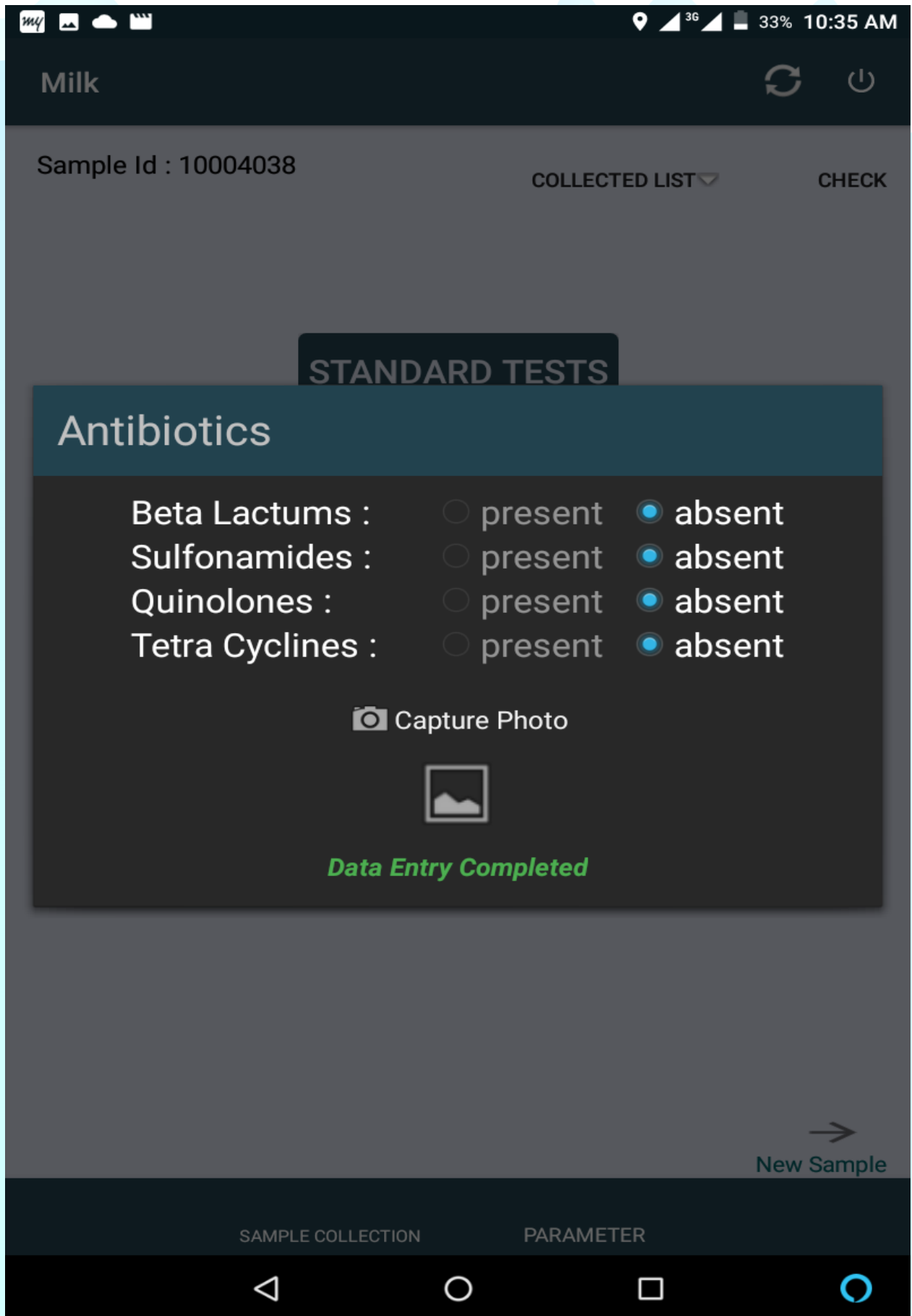
Data Entry Completed

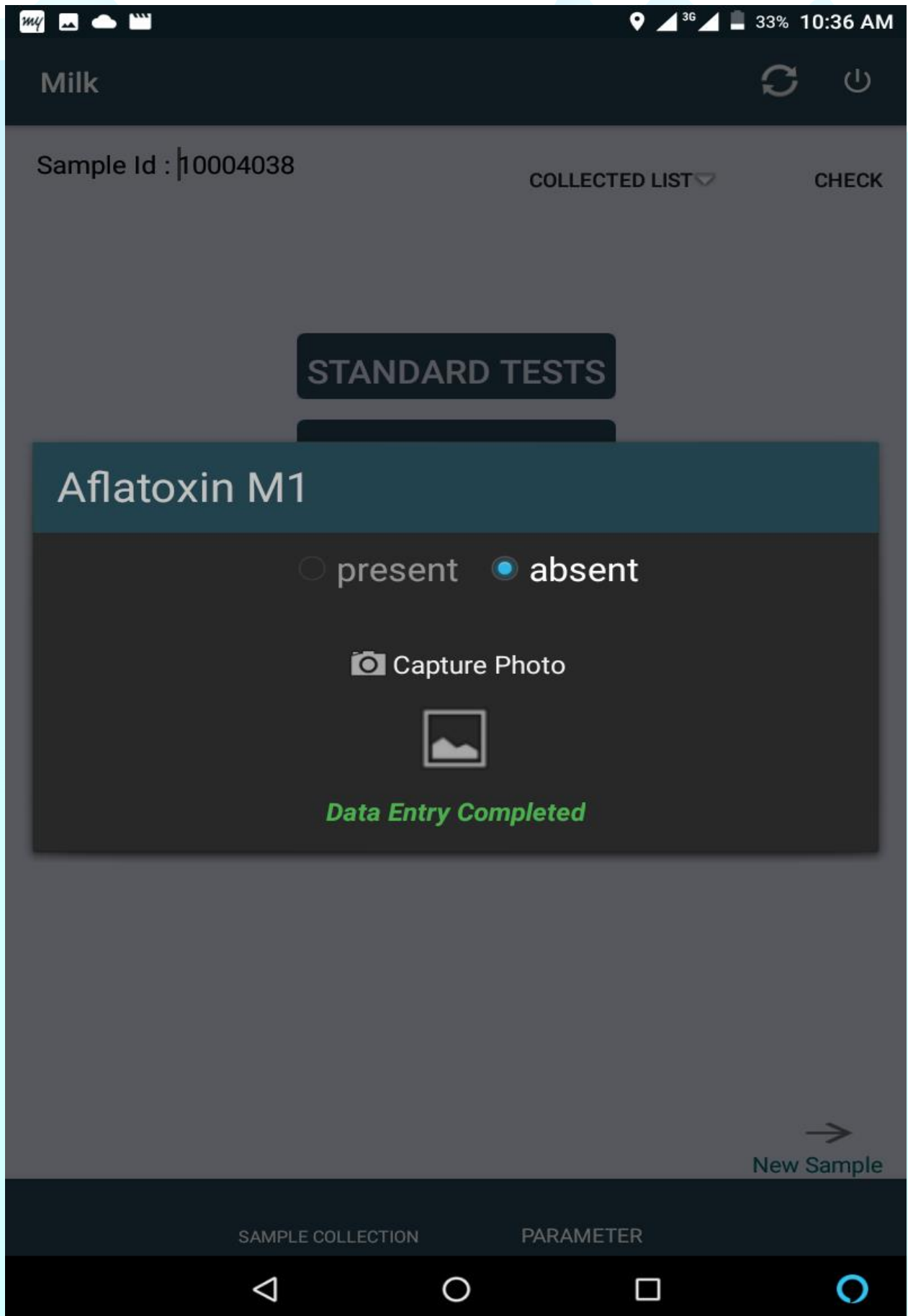
ANTIBIOTICS

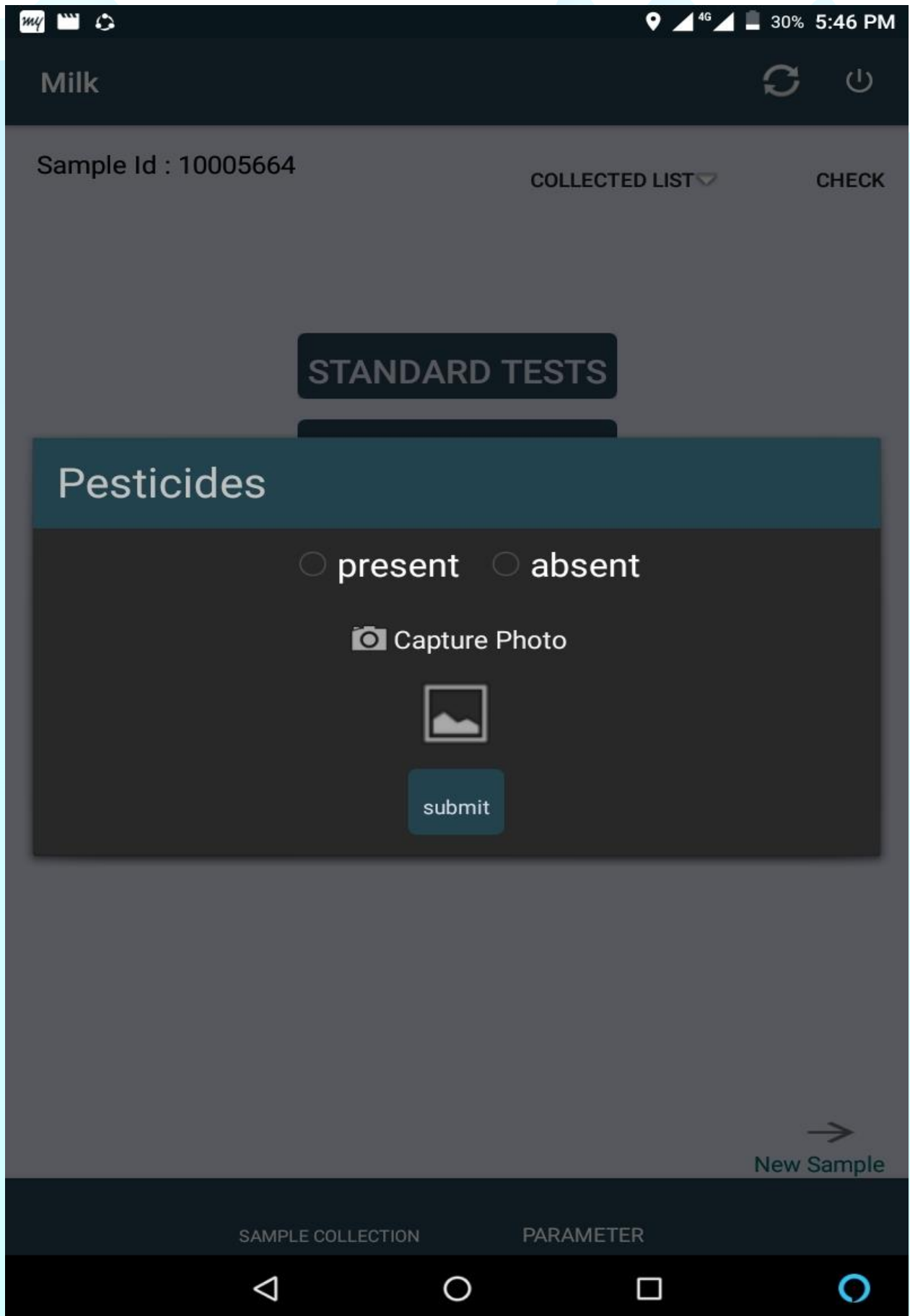
AFLATOXIN M1

12# English Next
























Annexure-7
NMQS-2018
Sampling kits and instructions

Sampling Kit list

S.No.	Item description	S.No.	Item description
1	Dipper for milk sample collection 	5	Barcode labels 
2	Bottle wide mouth PP-500mL or equivalent 	6	Tab with Milk GPS App/Dual SIMs 
3	Insulated boxes 	7	FSSAI approval letter
4	Ice / Cool packs 	8	Vimta ID Card
		9	SOP No. 06/61 Sampling of milk for field level analysis
		10	First Aid kit 

Analysis Kit list

S.No.	Item description
1	Funnel 
2	Micro Pipette with tips 
3	Heating mantle/Heaters 
4	Test tubes 5mL, 15mL, 50mL, 100mL 

S.No.	Item description
5	Reagent-2A, 2B, 3A, 4A, 5A, 5B, 6A, 7A, 8A, 8B, 9A, 9B, 9C, 10A, 11A, 12A, 12B, 13A, 13B 
6	500mL Glass beaker 
7	Disposal droppers 
8	Wash bottle 

Sampling Instructions

1. Ensure that required containers, bar code labels, etc. as per check list are available.
2. Check the list of towns allotted to you.
3. As per the travel plan given, reach the city a day before in the evening or early morning to perform sampling in the early morning.
4. Check Real time data platform in tab for internet connectivity. Migration to other SIM shall be done if there is internet issue with default SIM.
5. Milk shall be taken preferably during the early morning or in the evening from dairy farms, milk vendor, milk mandi/collection centre for Raw milk. Poly pouches/ tetra packs from Retail shops and milk from processing unit can be taken anytime during the day.
6. Based on the town and availability of 5 different sectors (Dairy farm, Milk vendor, Milk mandi, Retail shop, Processing unit), number of samples for each category shall be chosen from the Sector matrix table given to you. Sampler may use his discretion to adjust number of samples from locations based on population or demand/supply.
7. Reach the location with insulated box and sufficient cool packs.
8. For raw milk, label the barcode on container provided to you (2 labels with same number in the opposite sides of container) and collect 500mL of sample as per the plan and follow the SOP to input the data into the Tab. Submit the details.
9. For packet milk, collect minimum 500mL pack and attach the barcode label (2 labels with same number in opposite sides of pack). Input the details such as Sample type, Batch No., Expiry etc. in the Tab. Submit the details.
10. Preservatives and additives shall not be used in any case as we are testing milk for those preservatives also.
11. Keep the containers/packs in box containing cool packs to maintain milk in chilled condition.
12. Move to the other location in the town and collect samples as per the plan.

Once the samples are collected for the town (s) proceed for analysis as per the SOP/ guidelines given.

Annexure-8

NMQS-2018

Test methods and analysis protocols

Test methods

1. Milkoscreen equipment was used to determine Protein, FAT, SNF, Excess Water, Urea, Detergents, Maltodextrin and Ammonium Sulphate.

- **Step 1:** Switch on the instrument by plugging power cable and Run Start up test and allow 30 min for warm-up time.
- **Step 2:** Press “Zero” for display message or press back button to return to main screen. Display shows ‘F’ (Fat), ‘S’ (Solids Not Fat), ‘P’ (Protein).
- **Step 3:** Keep Descaling solution under pipette and press Clean button. Descaling solution contains citric acid (provided along with the instrument with an expiry date) and its preparation includes dissolving one bottle liquid in 100 mL type-1 water (Use within 3 days of preparation). After the completion of this process, remove the Descaling solution.
- **Step 4:** Keep Zero liquid (type-1 water) under pipette and press Zero button. After the completion of this process, remove the Zero liquid.
- **Step 5:** Keep milk sample under pipette and press Measure button. Readings will be shown on the screen.

Note: Do not attempt to measure a sour milk sample. Clean the instrument immediately if sour milk is measured by mistake. Enough liquid sample must be available to cover the filter during the measurement. Otherwise, an “Air in sample” error will appear.

Figure 1. Graphical representation of operational procedure of MilkoScreen Instrument



For the adulterants tests including urea, maltodextrin, ammonium sulphate, sucrose (sugar) and added water, keep the milk sample under pipette and press Measure button. Readings will be shown on the screen along with the adulterant names.

For other adulterants FSSAI manual methods are followed.

5.0 PROCEDURE FOR DETERMINATION OF MILK ADULTERANTS

5.1 Requirements

5.1.1 Glassware's

Volumetric flasks - 100 mL and 500mL capacity

Measuring Cylinder - 1mL to 10 mL and 1 to 100mL capacity

Glass Test tubes

Reagent Bottles

Glass pipettes 1mL, 2mL, 5mL, 10mL

250 ml Round bottom flask

Mojonnier fat extraction flask

Porcelain dish

Glass beakers

Test tubes plastic/glass of various size 5mL/15mL/25mL, 50mL

VolumetricFlask



MeasuringCylinder



Glasspipettes



Round bottomFlask



Mojonnier fat extraction flask

Reagent bottles

Porcelain dish Glass test tube



5.1.2 Material and Reagents

- For Vegetable oil/fat: Reagent 1A, 1B, 1C & 1D
- For Detergents/caustic soda: Reagent 2A & 2B
- For Hydrogen peroxide: Reagent 3A
- For Sugar: Reagent 4A
- For Glucose: Reagent 5A & 5B
- For Urea: Reagent 6A
- For Starch: Reagent 7A
- For Maltodextrin: Reagent 8A & 8B
- For Boric acid: Reagent 9A, 9B & 9C
- For Ammonium sulphate: Reagent 10A
- For Nitrates: Reagent 11A
- For Cellulose: Reagent 12A, 12B
- For Neutralizers: Reagent 13A & 13B
- Cork or stopper of synthetic rubber unaffected by usual fat solvents
- Nylon cloth
- Red litmus paper
- Spotting plate
- Spatula
- Whatman filter paper no. 42

5.1.3 Equipment's

- Vortexer/shaker
- Waterbath
- Hot air oven

- Descicator
- Refractometer
- Milkoscreenequipment

5.2 Analysis of 13 Adulterants in milksamples.

- Milkoscreen equipment can detect 4 adulterants (Sucrose, Urea, Maltodextrin and Ammonium sulphate) directly and gives a reading which adulterant is present. Aspirate sample and record the observation in Milk GPS portal as per SOP 06/59 (Operation, Calibration and Maintenance of Milkoscreen Instrument).
 - In case of equipment is down, follow section 5.2.4 for Sugar analysis, 5.2.6 for Urea analysis, 5.2.8 for Maltodextrin analysis, 5.2.10 for Ammonium sulphate analysis.
 - In addition to four adulterants (Sucrose, Urea, Maltodextrin and Ammonium sulphate), Milko screen equipment also gives a reading “Abnormal” if any of the remaining 9 adulterants (Vegetable Oil/Fat, Detergent/Caustic Soda, Hydrogen Peroxide, Glucose, Starch, Boric acid, Nitrates, Cellulose and Neutralizer).
 - In case of no reading of “Abnormal”, record above adulterants as absent in Milk GPS portal.
 - In case of abnormal, proceed for individual analysis of 9 adulterants.

5.2.1 Vegetable Oil/Fat (Rose- Gottiled Method)

- **Reagents:** 1A, 1B, 1C & 1D
- **Equipment/Glassware**
 - a. Mojonnier fat extraction flask or any other suitable extraction tube
 - b. Cork or stopper of synthetic rubber unaffected by usual fat solvents.
 - c. 250 ml Round bottom flask.

- **Procedure:**

Take approx 10mL of milk sample in a Mojonnier fat extraction tube



Add 1.25mL of Reagent -1A , mix and shake thoroughly



Add 10mL of Reagent-1B and mix it again



Add 250mL of Reagent-1C



Stopper the tube and shake for about a minute



Then add 25mL Reagent-1D and shake it again for a minute



Let it stand until two layers has separated and is clear



(if there is a form emulsion, add 5 drops of Reagent-1B to separate two layers).



Collect the clear upper organic layer in to glass beaker and evaporated on a water bath temperature set at 90degrees.



After evaporation, dry the beaker in an hot air oven at 100+ 2°C for two hours to obtain fatresidue.



Measure the Refractive index by using obtained fat. Reading outside 40-43 indicates presence of vegetable oil/fat. Reading within 0-43 indicates absence of vegetableoil/fat.



Report present/Absent of vegetable oil/fat based on BR reading.

5.2.2 Detergents/CausticSoda

- **Reagents: 2A &2B**
- **Procedure**

Take 1mL of milk sample in a centrifuge tube



Add 5 mL of water, 1 mL of Reagent -2A and 0.2mL Reagent-2B. Shake it for 10 seconds



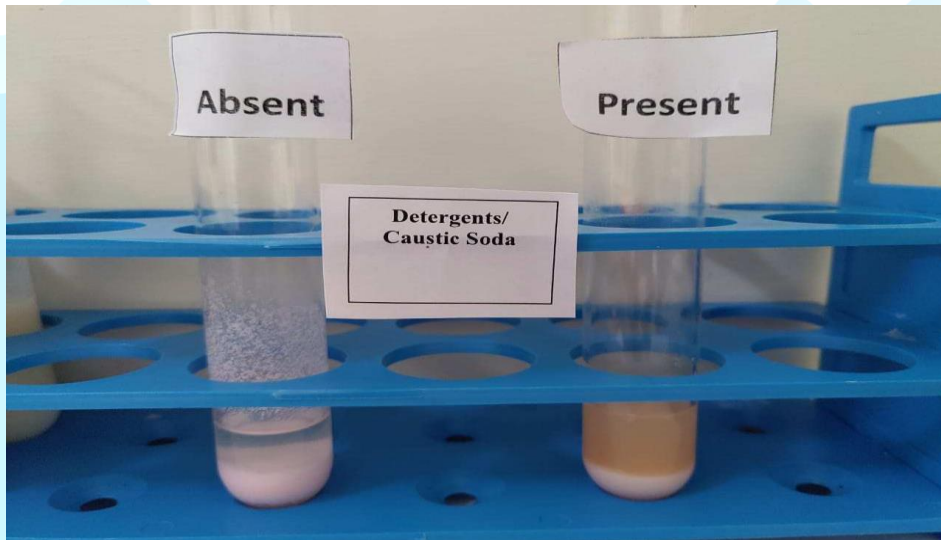
Allow the tube to settle the layers for approx 1



If detergent are present the bottom layer of centrifuge tube shows red or pink colours.If present in lower amounts shows a faint pink colour.



Report present/absent based on color observation.



5.2.3 Hydrogen Peroxide

- Reagents:3A
- Procedure

Take approx.. 2mL of milk sample in a tube



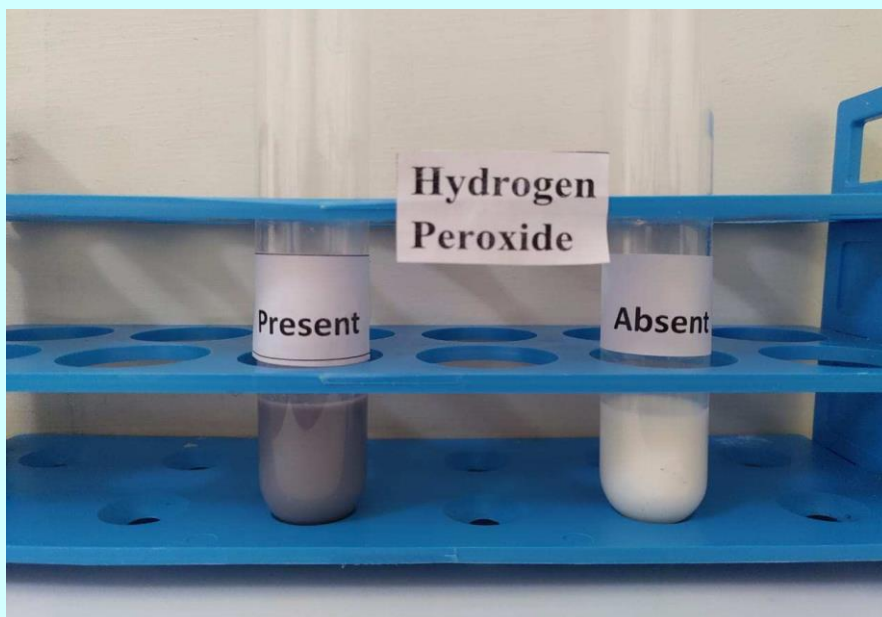
Add two drops of Reagent-3A



Mix well and Observe the color of the solution in the tube.



Blue color indicates presence of Hydrogen peroxide, White color indicates absence of Hydrogen peroxide.



5.2.4 Sugar

- **Reagents:4A**
- **Procedure**

Take approx 1mL of milk sample in a test tube.



Add 1mL of Reagent-4A and mix.



Place the tube in boiling water bath maintained at 90°C for 5 minutes



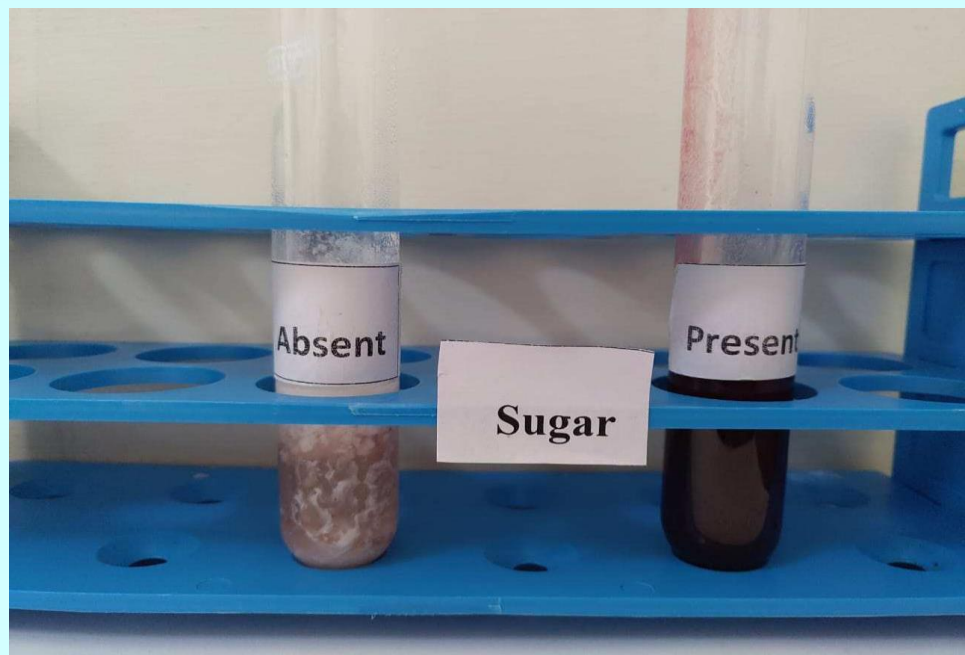
Remove the tube from the water bath



Observe the color



Appearance of deep red colour indicates presence of Sucrose, white color indicates absence of Sucrose.



5.2.5 Glucose

- **Reagents: 5A &5B**
- **Procedure:**

Take 1mL of milk sample in a test tube



Add 1mL of Reagent-5A



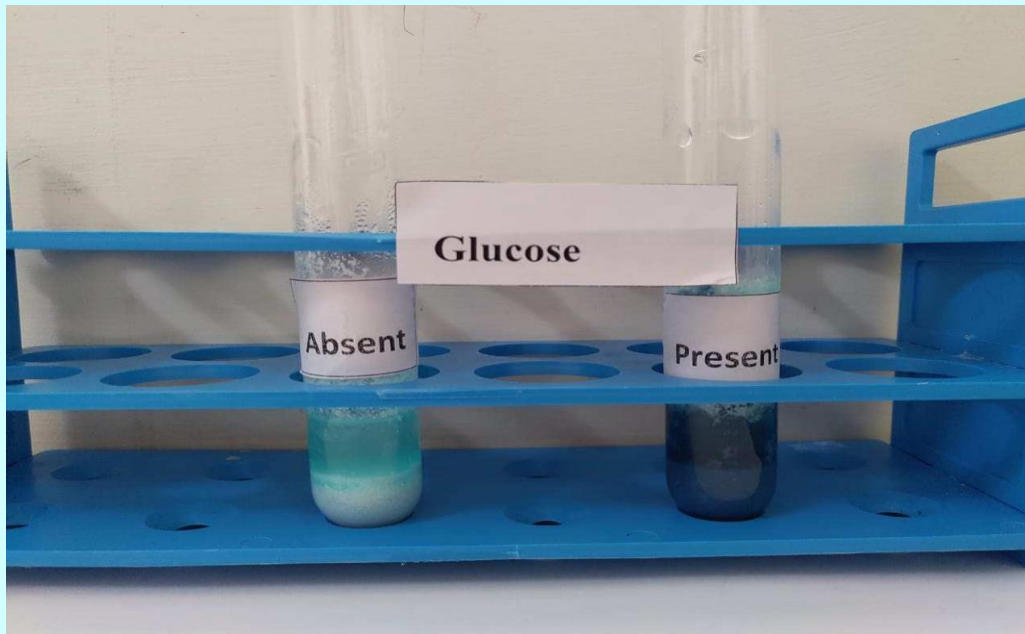
Heat the mixture for 3 minutes in boiling water bath. Rapidly cool under tap water.



Add 1 ml of Reagent -5B to the turbid solution. Observe the colour



Immediate formation of deep blue colour after adding Reagent-5B indicates presence of Glucose and faint bluish colour indicates absence of Glucose.



5.2.6 Urea

- **Reagents:6A**
- **Procedure:**

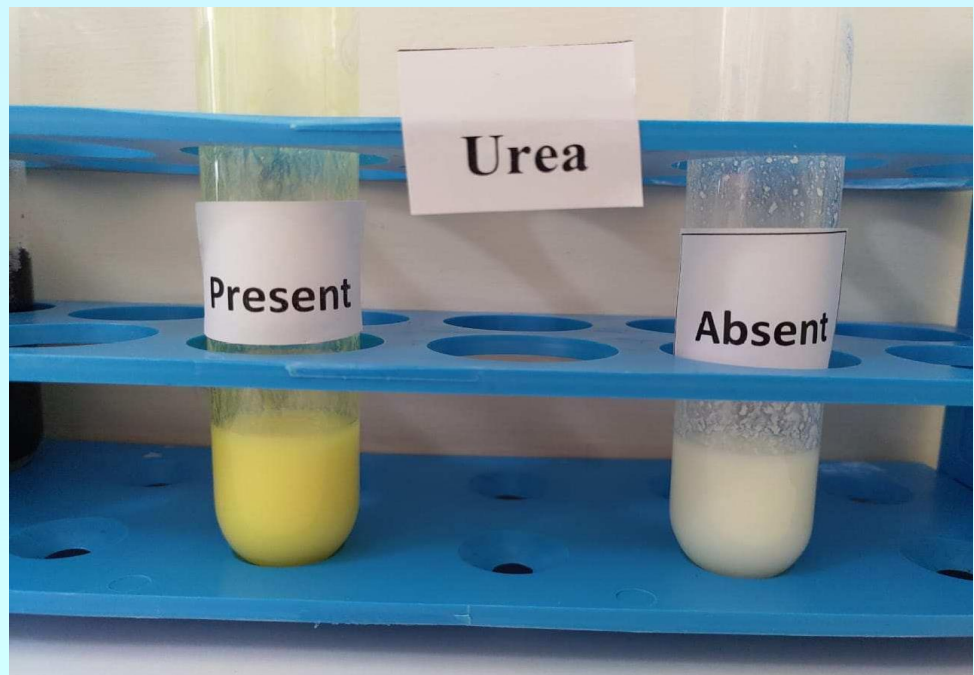
Take 1 ml of milk in a test tube.



Mix with 1 mL of Reagent -6A



Distinct yellow colour indicates presence of Added Urea and slight yellow colour indicates absence of Added Urea.



5.2.7 Starch

- **Reagents:7A**
- **Procedure**

Take 5 ml of milk in a tube.



Heat the sample tube in water bath maintained at 90°C to bring to boiling condition



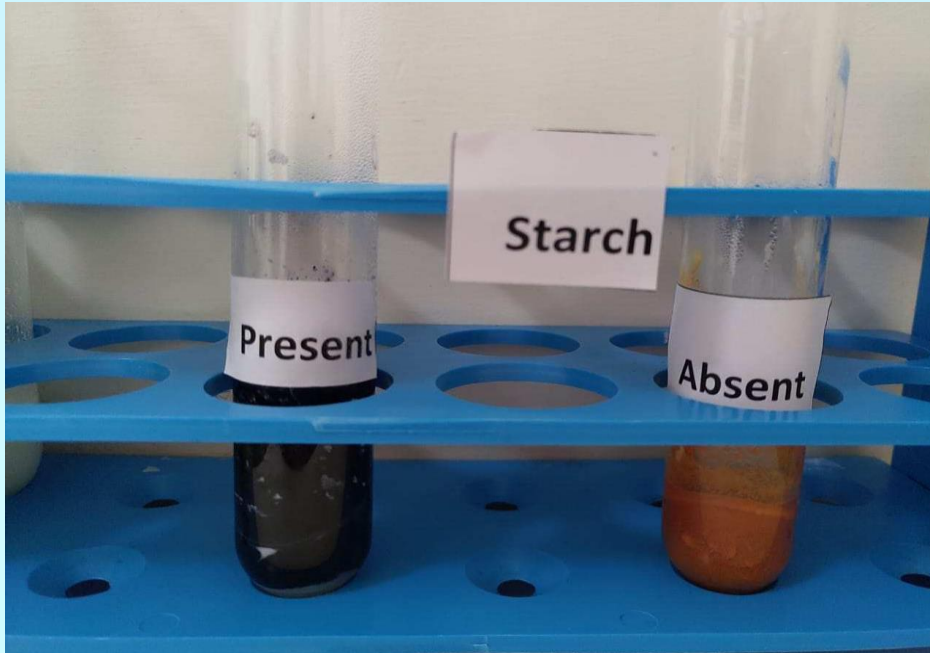
Allow the tube to cool to room temperature.



Add 1-2 drops of Reagent-7A to the tube.



Development of blue colour indicates presence of starch which disappears when sample is boiled and reappears on cooling. White colour indicates absence of starch.



5.2.8 Maltodextrin

- **Reagents: 8A,8B**
- **Procedure:**

Take 20mL of milk sample in a beaker.



Heat it to boil and cool up to 70°C



Add Reagent-8A drop wise, while swirling the contents slowly so as to coagulate the milk. Cool to room temperature



Filter through Whatman filter paper no. 42 and collect the filtrate.



Take 2mL filtrate in test tube and few drops of Reagent-8B

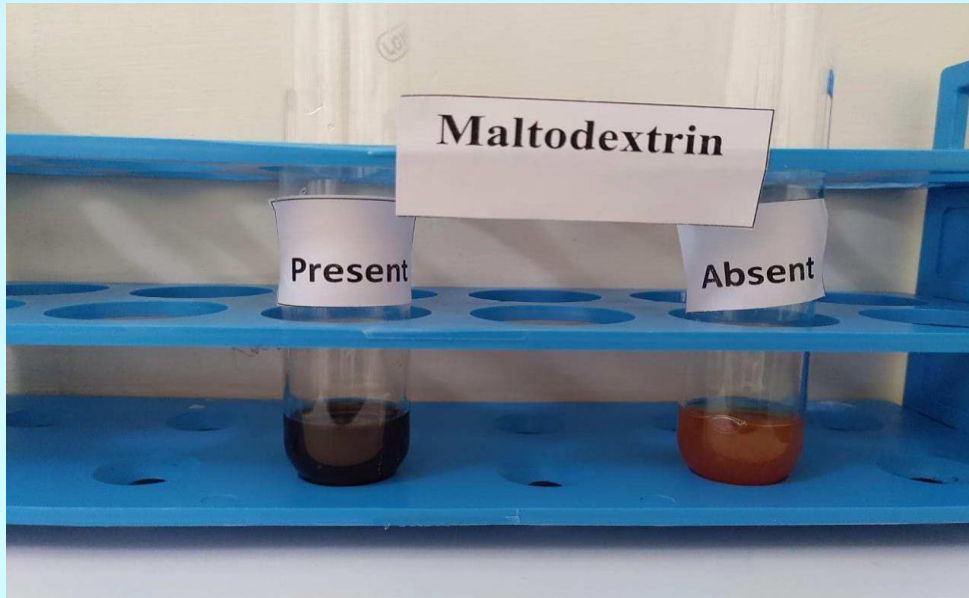


Observe the colour.



Appearance of Orange-brown shade or darker shade indicates presence of maltodextrins.

Appearance of yellow colour indicates Pure milk.



5.2.9 Boric acid

- **Reagents: 9A, 9B & 9C**

- **Procedure:**

Take 20 ml of milk in a porcelain dish/glass beaker



Add 1.4 ml of Reagent-9B and mix it thoroughly.



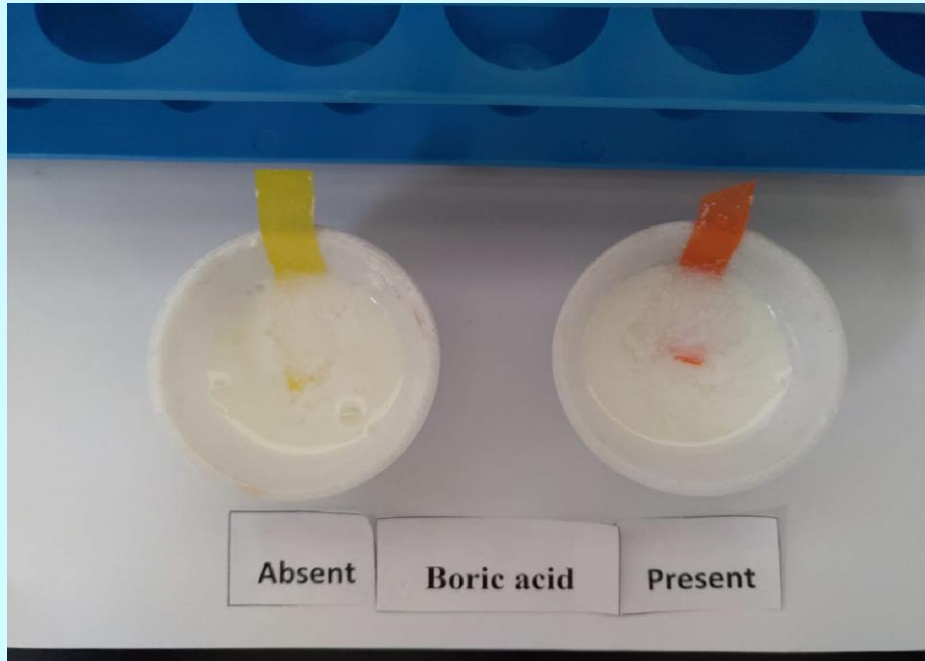
Dip a strip of Reagent-9A turmeric paper in the acidified milk.



Appearance of characteristic red colour on the turmeric paper indicates the presence of boric acid. (The red colour changes to dark blue green on adding few drops of Reagent-9C on paper and reappears on adding few drops of Reagent-9B)



No change from yellow colour indicates absence of Boric acid



5.2.10 Ammonium Sulphate:

- **Reagents:10A**
- **Procedure:**

Take 5 ml of milk sample in a test tube.



Add 1 ml of Reagent-10A



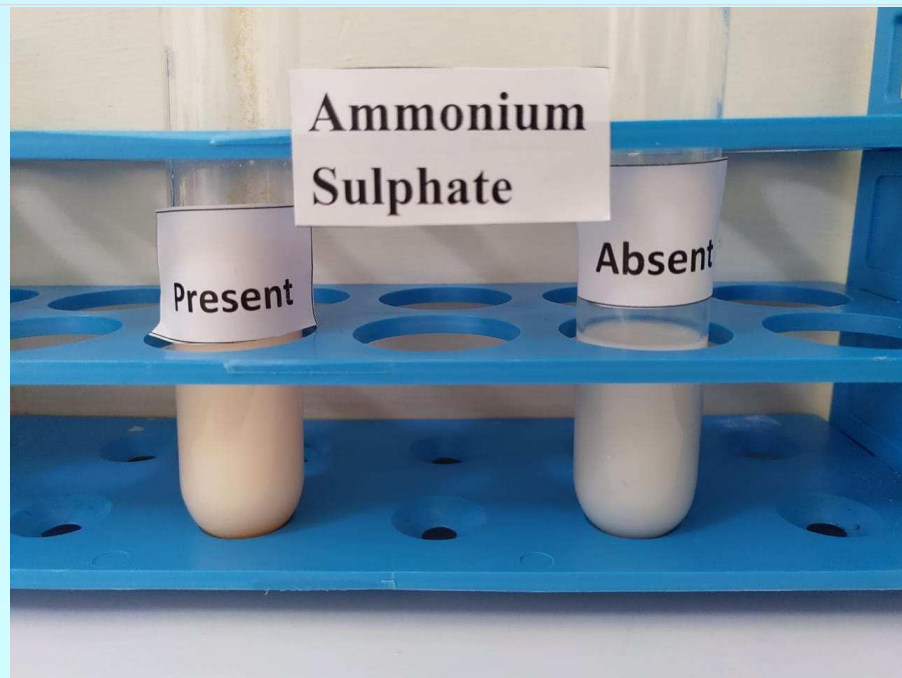
Mix the contents of the tube thoroughly.



Observe and note the color.



Brownish shade to Yellowish and Orange colour indicates presence of Ammonium sulphate, Grayish colour indicates absence of Ammonium sulphate.



5.2.11 Nitrates:

- **Reagents:11A**

- **Procedure :**

Rinse the tube with the milk and drain the milk from the test tube.



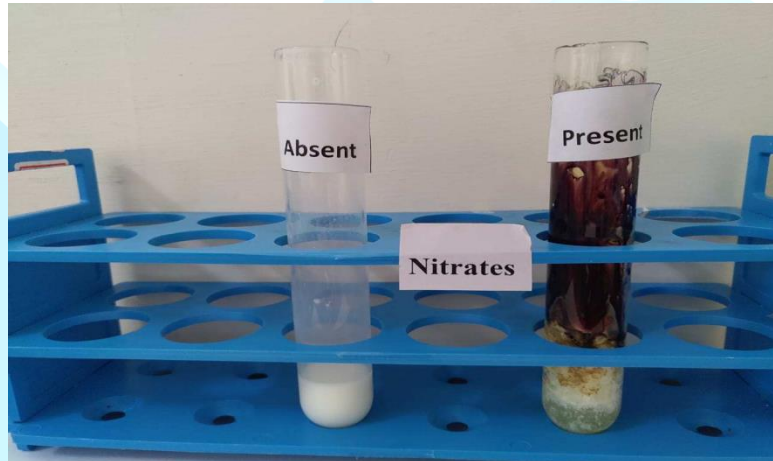
Take approx. 2 ml of milk in a test tube.



Add 2-3 drops of the Reagent-11A along the side of the test tube.



Deep blue colour will be formed in presence of Nitrates in the milk sample, Nocolour development indicates absence of Nitrate.



5.2.12 Cellulose

- **Reagents: 12A,12B**
- **Procedure :**

Take approx. 10 mL of milk sample in a 100 ml beaker.



Add 50 ml of hot water and stir thoroughly for about 2 min.



Pour the mixture on a nylon cloth and wash the residue with 50 ml of hot water twice.



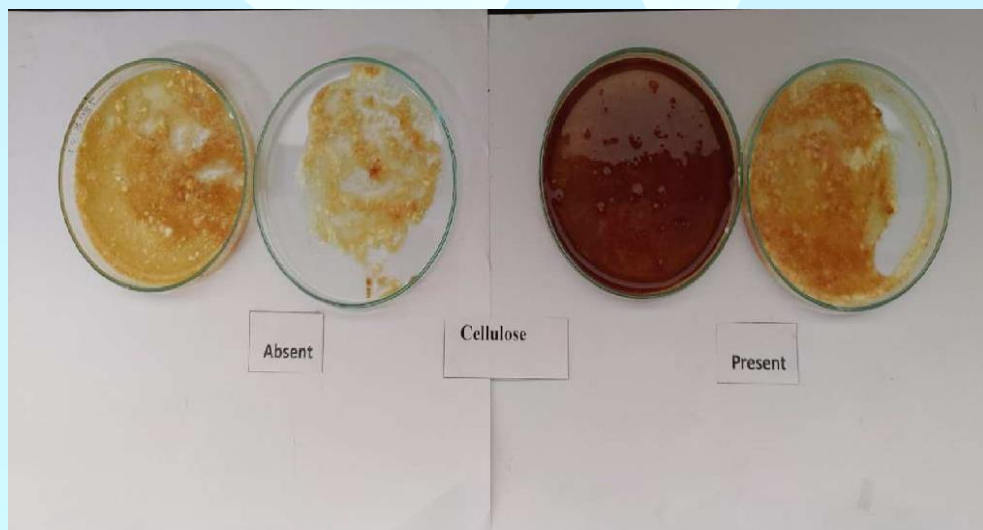
Scrape the residue with a spatula and place it in a glass plate.



Stain a part of residue with Reagent 12-A and another part with Reagent 12-B



Development of blue colour with Reagent-12A and absence of blue colour with Reagent-12B confirms presence of cellulose.



5.2.13 Neutralizers

- **Reagents: 13A &13B**
- **Procedure:**

Take approx 10 ml of milk in a test tube



Add equal volume of Reagent13B.



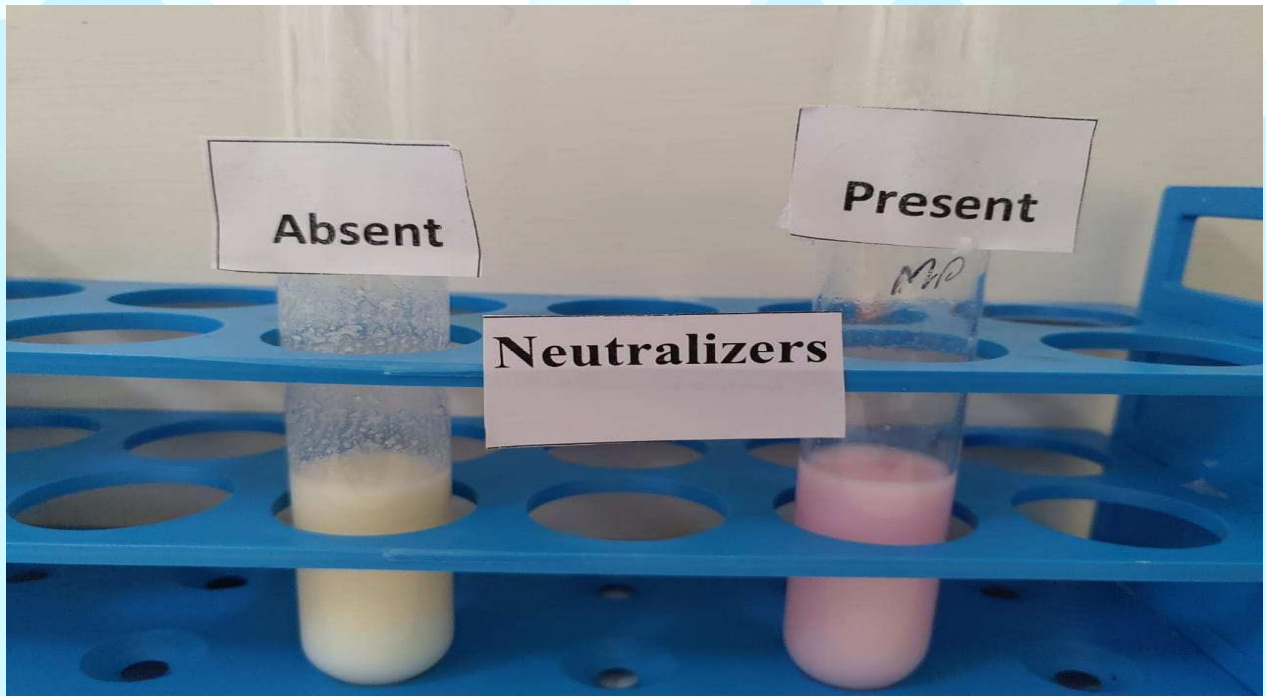
Add a few drops of Reagent-13A.







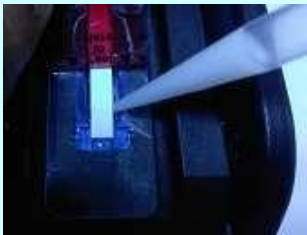

Observed the colour






Rose red colour indicates presence of Neutralizers and brownish colour indicates absence of Neutralisers









Antibiotics Detection method (Charm EZ Lite)





Step	Procedure	View in system
Step 1	Power on the system, after initialization of the system, the display shows INSERT STRIP TO START	
Step 2	Place the Antibiotic strip (RED colored strip) in the specific position in the instrument (Fit into the grooves)	
Step 3	System automatically detects strip and the display shows WAIT FOR INCUBATOR TEMPERATURE QUAD 1 and the temperature adjusts to 56 ± 1 °C.	
Step 4	After reaching the temperature the display shows: QUAD 1 ADD MILK/CLOSE DOOR	
Step 5	Peel the cover on the strip till the red mark and load 300µ L milk sample in the provided groove/pit on the sides. (See no spillage occurs on the sides)	
Step 6	Close the strip cover and close the door of the instrument	

Step	Procedure	View in system
Step 7	<p>The system display:</p> <p style="text-align: center;">ASSAY IN PROGRESS</p> <p style="text-align: center;">TIME (count down from 5 minutes)</p>	
Step 8	<p>After 5 minutes incubation time the system reads the sample and gives result as either positive or negative.</p>	
Step 9	<p>Take a photograph of the system display along with sample and upload in the software. Enter the results into the software as NEG as Absent & POS as Present. In case of present check the strip for darkness of line with respect to Control (C) line. Lighter than control indicates presence for that antibiotic group.</p>	

*Note: Antibiotic Strips are to be stored at 5 °C






Aflatoxin M₁ Detection method (Charm EZ Lite)



Step	Procedure	View in system
Step 1	Power on the system, after initialization of the system, the display shows INSERT STRIP TO START	
Step 2	Place the Aflatoxin M ₁ strip (GREEN color strip) in the specific position in the instrument (Fit into the grooves)	
Step 3	System automatically detects strip and the display shows WAIT FOR INCUBATOR TEMPERATURE SLAFMQ and the temperature adjusts to 46 ± 1 °C.	
Step 4	After reaching the temperature the display shows: SLAFMQ ADD MILK/CLOSE DOOR	
Step 5	Prepare dilution of sample with 200µL SLAFMQ dilution buffer to the 200µL milk sample and mix well	
Step 6	Peel the cover on the strip till the green mark and load 300µ L buffer diluted milk sample in the provided groove/pit on the sides. (See no spillage occurs on the sides)	

Step	Procedure	View in system
Step 7	Close the strip cover and close the door of the instrument	
Step 8	The system display: ASSAY IN PROGRESS TIME (count down from 8 minutes)	
Step 9	After 8 minutes incubation time the system reads the sample and gives result as either positive or negative.	
Step 10	Take a photograph of the system display along with sample and upload in the software. Enter the results into the software as NEG as Absent & POS as Present.	

*Note: Strips and SLAFMQ dilution buffer to be stored at 5°C

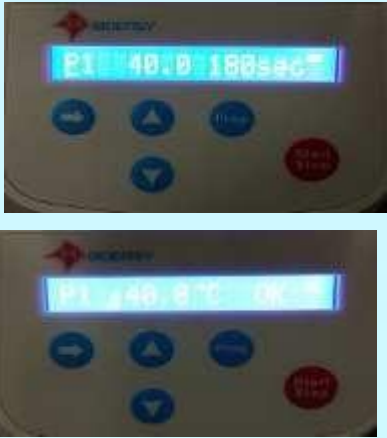



Pesticides Detection method (NDRI kits)

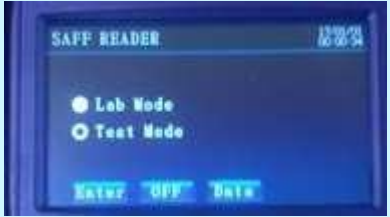

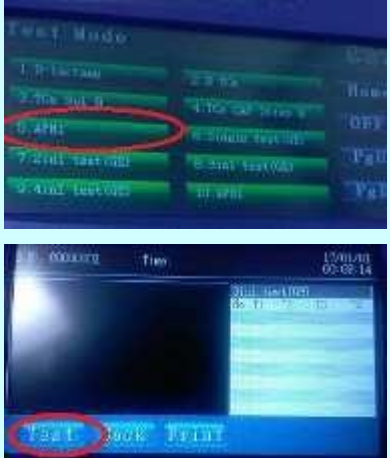
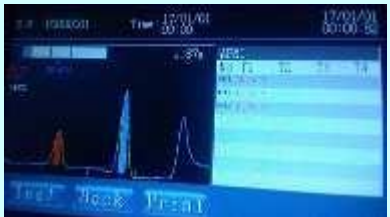
Step	Procedure	View in system
Step 1	Take the lyophilized tube with spores	
Step 2	Add 30 μ L of Phosphate Buffer Saline to the lyophilized tube	
Step 3	Keep the lyophilized tube in the heating mantle at 37°C temperature in for 30 minutes (keep the tubes in beaker with water on hot plate/heating mantle, for equal distribution of temperature)	
Step 4	Add 30 μ L of milk sample in the lyophilized tube and place the PR strip (pesticide residue) with bands side dipped in the milk	
Step 5	Again keep the lyophilized tube in the heating mantle at 37°C temperature in for 30 minutes. (keep the tubes in beaker with water on hot plate/heating mantle, for equal distribution of temperature)	

Step	Procedure	View in system
Step 6	<p>If blue colour develops (partial or full), identified as Negative (PR absent)</p> <p>If white colour observed, identified as Positive (PR present)</p>	
Step 7	<p>Take a photograph of the strip along with sample and upload in the software. Enter the results into the software either Present or Absent.</p>	

* Note: Lyophilized spore tubes, Strips and phosphate buffer saline to be stored at 5°C

Milk Aflatoxin M1 rapid test kit method (BIOEASY)

Step	Procedure	View in system
Step 1	<p>Connect to power and switch on the incubator, Press “Prog” and select P1, Set temp to 40°C and time to 180 sec (3 min) by clicking on right arrow button.</p> <p>(Temp and time setting required for only first time)</p> <p>Wait for temperature to reach 40 ±2 °C. Beep sound comes upon reaching the temperature and display shows OK.</p>	
Step 2	Add 200µL milk sample into the reagent microwell and mix well.	
Step 3	<p>Insert the microwell in the incubator and select P1 for 40°C and 180 sec (3min)</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	
Step 4	<p>Press “Prog” and select P3, Set temp to 40°C and time to 240 sec (4 min) by clicking on right arrow button. (Temp and time setting required for only first time)</p> <p>After step 3, insert the dipstick into the microwell and select P3 (temp to 40°C and time to 240 sec).</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	

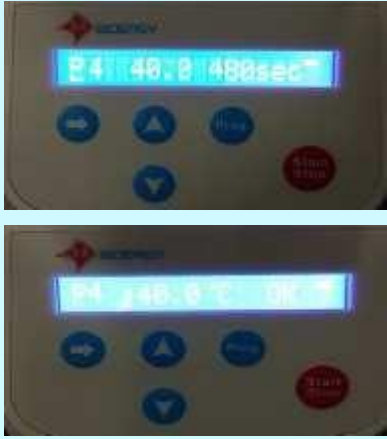


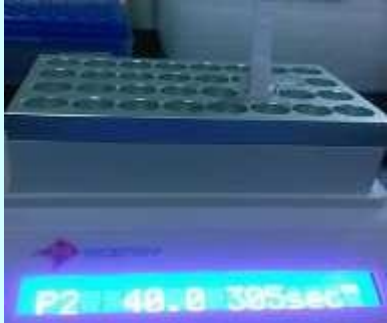
Step	Procedure	View in system
Step 5	Power on the Reader, select “Test mode”	
Step 6	<p>Take out the dipstick from microwell, remove the sample pad at the lower end.</p> <p>Pull the black tray at the bottom of the reader, place the strip in its position and close the tray.</p>	
Step 7	Select 5.AFM1 and press TEST.	
Step 8	<p>Take a photograph of the system display along with sample and upload in the software. Enter the results into the software N as Absent & P as Present.</p> <p>In case of present check the strip for darkness of line with respect to Control (C) line. Lighter than control indicates presence for that antibiotic group.</p>	



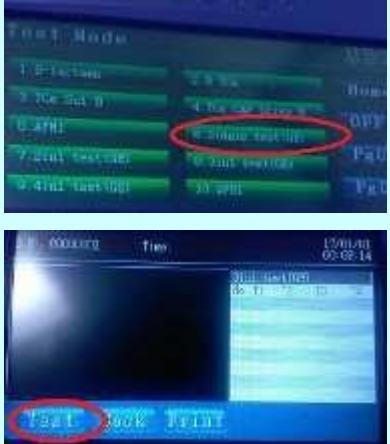

*Note: Aflatoxin M1 Strips are to be stored at 2- 8 °C, allow the kit test tubes warm upto room teperature.

Mix milk sample thouroughly with microwell reagent before incubation.

Chloramphenicol

Milk Antibiotic residues rapid test kit method(BIOEASY)

Step	Procedure	View in system
Step 1	<p>Connect to power and switch on the incubator, Press “Prog” and select P4, Set temp to 40°C and time to 480 sec (8 min) by clicking on right arrow button.</p> <p>(Temp and time setting required for only first time)</p> <p>Wait for temperature to reach 40 ±2 °C. Beep sound comes upon reaching the temperature and display shows OK.</p>	
Step 2	Add 200µL milk sample into the reagent microwell and mix well.	
Step 3	<p>Insert the microwell in the incubator and select P4 for 40°C and 480 sec (8min)</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	
Step 4	<p>Press “Prog” and select P2, Set temp to 40°C and time to 360 sec (6 min) by clicking on right arrow button. (Temp and time setting required for only first time)</p> <p>After step 3, insert the dipstick into the microwell and select P2 (temp to 40°C and time to 360 sec).</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	

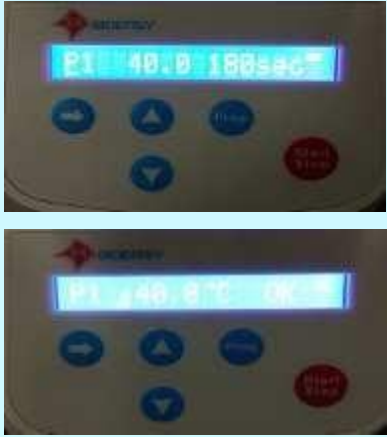


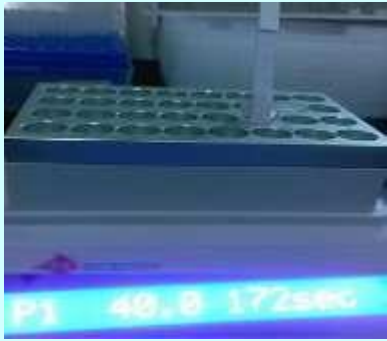
Step	Procedure	View in system
Step 5	Power on the Reader, select “Test mode”	
Step 6	<p>Take out the dipstick from microwell, remove the sample pad at the lower end.</p> <p>Pull the black tray at the bottom of the reader, place the strip in its position and close the tray.</p>	
Step 7	Select 6.Single test (GE) and press TEST.	
Step 8	<p>Take a photograph of the system display along with sample and upload in the software. Enter the results into the software N as Absent & P as Present.</p> <p>In case of present check the strip for darkness of line with respect to Control (C) line. Lighter than control indicates presence for that antibiotic group.</p>	

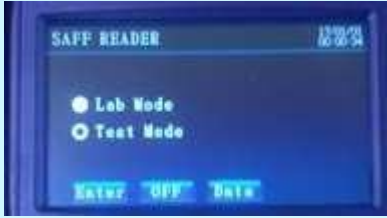

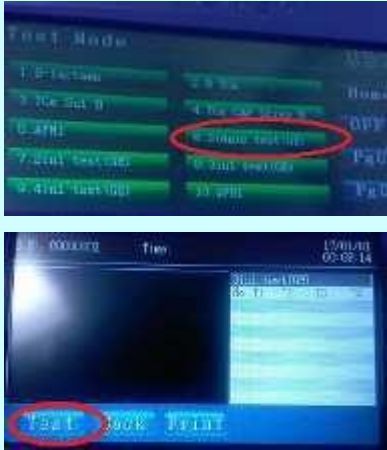

*Note: Antibiotic Strips are to be stored at 2- 8 °C, allow the kit test tubes warm upto room teperature.

Mix milk sample thouroughly with microwell reagent before incubation.

Fluoroquinolones

Milk Antibiotic residues rapid test kit method (BIOEASY)

Step	Procedure	View in system
Step 1	<p>Connect to power and switch on the incubator, Press “Prog” and select P1, Set temp to 40°C and time to 180 sec (3 min) by clicking on right arrow button.</p> <p>(Temp and time setting required for only first time)</p> <p>Wait for temperature to reach 40 ±2 °C. Beep sound comes upon reaching the temperature and display shows OK.</p>	
Step 2	Add 200µL milk sample into the reagent microwell and mix well.	
Step 3	<p>Insert the microwell in the incubator and select P1 for 40°C and 180 sec (3min)</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	
Step 4	<p>Press “Prog” and select P1, Set temp to 40°C and time to 180 sec (3 min) by clicking on right arrow button. (Temp and time setting required for only first time)</p> <p>After step 3, insert the dipstick into the microwell and select P1 (temp to 40°C and time to 180 sec).</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	





Step	Procedure	View in system
Step 5	Power on the Reader, select “Test mode”	
Step 6	<p>Take out the dipstick from microwell, remove the sample pad at the lower end.</p> <p>Pull the black tray at the bottom of the reader, place the strip in its position and close the tray.</p>	
Step 7	Select 6.Single test (GE) and press TEST.	
Step 8	<p>Take a photograph of the system display along with sample and upload in the software. Enter the results into the software N as Absent & P as Present.</p> <p>In case of present check the strip for darkness of line with respect to Control (C) line. Lighter than control indicates presence for that antibiotic group.</p>	





*Note: Antibiotic Strips are to be stored at 2- 8 °C, allow the kit test tubes warm upto room teperature.

Mix milk sample thouroughly with microwell reagent before incubation.

Beta-lactams+Sulfonamides+Tetracyclines

Milk Antibiotic residues rapid test kit method (BIOEASY 3IN1 BST)

Step	Procedure	View in system
Step 1	<p>Connect to power and switch on the incubator, Press “Prog” and select P1, Set temp to 40°C and time to 180 sec (3 min) by clicking on right arrow button.</p> <p>(Temp and time setting required for only first time)</p> <p>Wait for temperature to reach 40 ±2 °C. Beep sound comes upon reaching the temperature and display shows OK.</p>	
Step 2	<p>Add 200µL milk sample into the reagent microwell and mix well.</p>	
Step 3	<p>Insert the microwell in the incubator and select P1 for 40°C and 180 sec (3min)</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	
Step 4	<p>Press “Prog” and select P2, Set temp to 40°C and time to 360 sec (6 min) by clicking on right arrow button. (Temp and time setting required for only first time)</p> <p>After step 3, insert the dipstick into the microwell and select P2 (temp to 40°C and time to 360 sec).</p> <p>Press Start button (Start/Stop), countdown for time starts and wait till zero.</p>	

Step	Procedure	View in system
Step 5	Power on the Reader, select “Test mode”	
Step 6	<p>Take out the dipstick from microwell, remove the sample pad at the lower end.</p> <p>Pull the black tray at the bottom of the reader, place the strip in its position and close the tray.</p>	
Step 7	Select 3.TCs Sul B and press TEST.	
Step 8	<p>Take a photograph of the system display along with sample and upload in the software. Enter the results into the software N as Absent & P as Present.</p> <p>In case of present check the strip for darkness of line with respect to Control (C) line. Lighter than control indicates presence for that antibiotic group.</p>	

*Note: Antibiotic Strips are to be stored at 2- 8 °C, allow the kit test tubes warm upto room temperature.Mix milk sample thoroughly with microwell reagent before incubation.

Annexure-9
State fact sheets along with town
wise data

Andaman & Nicobar Island state

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption(gm/day)&	No. of towns above 50K population*
379944	86.27%	124361	89	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,
& Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
16 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry^

Cattle count^	20,000
Feed manufacturers	2
Veterinary hospitals@	10

Milk production^	16 tons per annum
Co-operative societies@	0
Dairy processing units\$	01

Ref: http://www.animalhusbandry.com@17_Eng.pdf, [17_Eng.pdf](http://www.animalhusbandry.com@17_Eng.pdf)

[//dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

\$<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	5	3	60	2	40.0	--
(a) Compliant	4	3	100	1	50.0	80.0
(b) Non-Compliant (NC)	1	0	0	1	50.0	20.0
(i) NC with quality issues	1	0	0	1	50.0	20.0
(ii) NC with safety issues	0	0	0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0	0	0.0	0.0
Total samples without safety issues	5	3	100.0	2	100.0	100.0

Andaman & Nicobar Island state

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	1	0	0	1	50.0	20.0
NC for fat	1	0	0	1	50.0	20.0
NC for SNF	0	0	0	0	0.0	0.0
NC for Maltodextrin	0	0	0	0	0.0	0.0
NC for Sugar	0	0	0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0	0	0.0	0.0
Aflatoxin M1	0	0	0	0	0.0	0.0
Antibiotics	0	0	0	0	0.0	0.0
Pesticides	0	0	0	0	0.0	0.0
NC for Others	0	0	0	0	0.0	0.0
Detergents	0	0	0	0	0.0	0.0
Hydrogen peroxide	0	0	0	0	0.0	0.0
Neutralizers	0	0	0	0	0.0	0.0
Urea	0	0	0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Andaman & Nicobar Island state

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. of samples	Compliant	Non-compliant (NC)	Non compliant with Quality issues							Non-compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues		
1	ANDAMAN & NICOBAR ISLAND	5	4	1	1	0	0	0	0	1	0	0	0	0	0	0
	Port Blair	5	4	1	1	0	0	0	0	1	0	0	0	0	0	0

Andhra Pradesh state

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
49378776	67.66%	108163	305	72

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
34%	67.43%

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	53,96,000	Milk production [^]	12178 tons per annum
Feed manufacturers	12	Co-operative societies [@]	3537
Veterinary hospitals [@]	335	Dairy processing units ^{\$}	25

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	344	199	57.8	145	42.2	--
(a) Compliant	143	61	30.7	82	56.6	41.6
(b) Non-Compliant (NC)	201	138	69.3	63	43.4	58.4
(i) NC with quality issues	193	133	66.8	60	41.4	56.1
(ii) NC with safety issues	1	0	0.0	1	0.7	0.3
(iii) NC with both quality and safety issues	7	5	2.5	2	1.4	2.0
Total samples without safety issues	336	194	97.5	142	97.9	97.7

Andhra Pradesh state

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	132	72	36.2	60	41.4	38.4
NC for fat	59	55	27.6	4	2.8	17.2
NC for SNF	181	122	61.3	59	40.7	52.6
NC for Maltodextrin	47	47	23.6	0	0.0	13.7
NC for Sugar	38	38	19.1	0	0.0	11.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3 : Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	8	5	2.5	3	2.1	2.3
Aflatoxin M1	1	1	0.5	0	0.0	0.3
Antibiotics	7	4	2.0	3	2.1	2.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Andhra Pradesh state

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
S.No	ANDHRA PRADESH	344	143	201	59	181	38	47	200	1	7	0	0	8
1	Jaggaihpeta	4	1	3	0	3	0	1	3	0	0	0	0	0
2	Vijayawada	9	4	5	3	5	0	0	5	0	0	0	0	0
3	Machilipatnam	5	4	1	1	1	0	0	1	0	0	0	0	0
4	Gudivada	5	2	3	2	1	0	0	3	0	0	0	0	0
5	Nuzvid	4	3	1	0	1	0	0	1	0	0	0	0	0
6	Mangalagiri	5	3	2	1	2	0	0	2	0	0	0	0	0
7	Macherla	5	4	1	0	1	0	0	1	0	0	0	0	0
8	Piduguralla	3	1	2	1	2	0	0	2	0	0	0	0	0
9	Sattenapalle	4	1	3	2	3	0	0	3	0	0	0	0	0
10	Vinukonda	4	3	1	1	1	0	0	1	0	0	0	0	0
11	Narasaraopet	5	4	1	0	1	0	0	1	0	0	0	0	0
12	Chilakaluripet	5	5	0	0	0	0	0	0	0	0	0	0	0
13	Bapatla	4	2	2	0	2	0	0	2	0	0	0	0	0
14	Ponnur	4	2	2	1	1	0	0	2	0	0	0	0	0
15	Repalle	4	3	1	0	1	0	0	1	0	0	0	0	0
16	Tenali	5	4	1	0	1	0	0	1	0	0	0	0	0
17	Guntur	8	5	3	1	2	0	0	3	0	0	0	0	0

Andhra Pradesh state

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues						
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
18	Tadepalle	4	0	4	0	4	0	0	0	4	0	0	0	0	0
19	Eluru	7	2	5	0	5	0	0	0	5	0	0	0	0	0
20	Tadepalligudem	5	2	3	0	2	0	0	0	2	0	1	0	0	1
21	Tanuku	4	0	4	0	4	0	0	0	4	0	0	0	0	0
22	Bhimavaram	4	0	4	0	4	2	0	0	4	0	0	0	0	0
23	Palacole	4	2	2	0	2	0	0	0	2	0	0	0	0	0
24	Narasapur	4	1	3	1	2	2	3	0	3	0	0	0	0	0
25	Amalapuram	4	1	3	0	3	2	1	0	3	0	0	0	0	0
26	Mandapeta	4	3	1	0	0	1	0	0	1	0	0	0	0	0
27	Kakinada	6	6	0	0	0	0	0	0	0	0	0	0	0	0
28	Samalkot	4	2	2	2	2	2	1	0	2	0	0	0	0	0
29	Rajahmundry	6	1	5	1	5	2	0	0	5	0	0	0	0	0
30	Pithapuram	4	1	3	1	3	2	0	0	3	0	0	0	0	0
31	Tuni	4	3	1	1	1	1	0	0	1	0	0	0	0	0
32	Anakapalle	4	3	1	0	1	0	0	0	1	0	0	0	0	0
33	GVMC	8	4	4	1	3	1	0	0	4	0	0	0	0	0
34	Bheemunipatnam	4	2	2	0	2	1	0	0	2	0	0	0	0	0
35	Vizianagaram	7	4	3	0	3	0	0	0	3	0	0	0	0	0
36	Bobbili	4	3	1	0	1	0	0	0	1	0	0	0	0	0
37	Parvathipuram	4	2	2	0	2	0	0	0	2	0	0	0	0	0
38	Srikakulam	5	1	4	0	4	0	0	0	4	0	0	0	0	0
39	Palasa Kasibugga	4	4	0	0	0	0	0	0	0	0	0	0	0	0
40	Ongole	6	2	4	2	4	0	3	0	4	0	0	0	0	0

Andhra Pradesh state

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC		Others-NC
41	Kandukur	4	0	4	1	3	1	3	4	0	0	0	0	0
42	Gudur	4	0	4	2	3	0	2	4	0	1	0	0	1
43	Venkatagiri	4	1	3	1	2	1	3	3	0	0	0	0	0
44	Srikalahasti	4	1	3	0	2	0	1	3	0	1	0	0	1
45	Tirupati	6	0	6	2	6	0	3	6	0	0	0	0	0
46	Puttur	4	3	1	1	1	0	1	1	0	0	0	0	0
47	Nagari	4	1	3	1	3	0	2	3	0	0	0	0	0
48	Chittoor	6	2	4	0	3	0	1	4	0	0	0	0	0
49	Palamaner	4	1	3	0	3	0	1	3	0	1	0	0	1
50	Rayachoti	5	2	3	1	2	0	0	3	0	1	0	0	1
51	Rajampet	4	0	4	3	4	0	4	4	0	0	0	0	0
52	Kadapa	6	0	6	2	6	2	0	6	0	1	0	0	1
53	Proddatur	5	2	3	2	3	1	3	3	0	0	0	0	0
54	Puivendla	4	1	3	0	3	0	0	3	0	0	0	0	0
55	Kadiri	4	1	3	3	3	3	1	3	0	0	0	0	0
56	Chirala	4	2	2	1	2	0	1	2	0	0	0	0	0
57	Markapur	4	0	4	1	4	1	4	4	0	0	0	0	0
58	Kavali	4	1	3	0	3	0	0	3	0	0	0	0	0
59	Nellore	8	3	5	2	5	0	3	5	0	0	0	0	0
60	Madanapalle	5	3	2	0	2	0	0	2	0	0	0	0	0
61	Punganur	4	1	3	1	3	0	1	3	0	0	0	0	0
62	Hindupur	5	4	1	0	1	0	0	1	0	0	0	0	0
63	Dharmavaram	5	1	4	1	3	0	2	4	0	0	0	0	0

Andhra Pradesh state

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
64	Anantapur	6	2	4	2	4	1	0	0	4	1	0	0	0	1
65	Rayadurg	4	2	2	0	1	1	0	2	0	0	0	0	0	0
66	Guntakal	5	1	4	0	4	0	0	4	0	0	0	0	0	0
67	Tadpatri	5	1	4	2	3	3	2	4	0	1	0	0	0	1
68	Nandyal	6	2	4	3	3	2	0	4	0	0	0	0	0	0
69	Dhone	4	3	1	0	1	0	0	1	0	0	0	0	0	0
70	Adoni	5	0	5	1	5	1	0	5	0	0	0	0	0	0
71	Yemmiganur	4	1	3	2	2	2	0	3	0	0	0	0	0	0
72	Kurnool	5	1	4	2	3	3	0	4	0	0	0	0	0	0

Arunachal Pradesh state

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1382611	66.95%	123339	109	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,
& Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
36%	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	14,500	Milk production [^]	53 tons per annum
Feed manufacturers	1	Co-operative societies [@]	0
Veterinary hospitals [@]	1	Dairy processing units ^{\$}	0

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf,17_Eng.pdf

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	344	199	57.8	145	42.2	--
(a) Compliant	143	61	30.7	82	56.6	41.6
(b) Non-Compliant (NC)	201	138	69.3	63	43.4	58.4
(i) NC with quality issues	193	133	66.8	60	41.4	56.1
(ii) NC with safety issues	1	0	0.0	1	0.7	0.3
(iii) NC with both quality and safety issues	7	5	2.5	2	1.4	2.0
Total samples without safety issues	336	194	97.5	142	97.9	97.7

Arunachal Pradesh state

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	3	1	100.0	2	40.0	50.0
NC for fat	1	0	0.0	1	20.0	16.7
NC for SNF	3	1	100.0	2	40.0	50.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3 : Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	8	5	2.5	3	2.1	2.3
Aflatoxin M1	1	1	0.5	0	0.0	0.3
Antibiotics	7	4	2.0	3	2.1	2.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Arunachal Pradesh state

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. of samples	Compliant	Non compliant (NC)	Non compliant with Quality issues						Non compliant with Safety issues							
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	A.Sulfate-NC	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues			
1	ARUNACHAL PRADESH Itanagar	6	3	3	1	3	0	0	0	3	0	0	0	0	0	0	0	0

Assam State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
31169272	73.18%	60526	71	3

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
44%	63.91%

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	36,880	Milk production [^]	861 tons per annum
Feed manufacturers	5	Co-operative societies [@]	355
Veterinary hospitals [@]	29	Dairy processing units ^{\$}	4

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	22	7	31.8	15	68.2	--
(a) Compliant	15	3	42.9	12	80.0	68.2
(b) Non-Compliant (NC)	7	4	57.1	3	20.0	31.8
(i) NC with quality issues	7	4	57.1	3	20.0	31.8
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	22	7	100.0	15	100.0	100.0

Assam State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	7	4	57.1	3	20.0	31.8
NC for fat	2	0	0.0	2	13.3	9.1
NC for SNF	5	4	57.1	1	6.7	22.7
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0	0	0.0	0.0
Antibiotics	0	0	0	0	0.0	0.0
Pesticides	0	0	0	0	0.0	0.0
NC for Others	0	0	0	0	0.0	0.0
Detergents	0	0	0	0	0.0	0.0
Hydrogen peroxide	0	0	0	0	0.0	0.0
Neutralizers	0	0	0	0	0.0	0.0
Urea	0	0	0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Assam State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla -NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
1	ASSAM	22	15	7	2	5	0	0	0	7	0	0	0	0	0
2	Guwahati	10	9	1	1	0	0	0	1	0	0	0	0	0	0
3	Dhubri	6	3	3	0	3	0	0	3	0	0	0	0	0	0
3	Goalpara	6	3	3	1	2	0	0	3	0	0	0	0	0	0



Bihar State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
103804637	63.82 %	31454	228	54

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
38 %	67.4 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	9999	Milk production [^]	87111 tons per annum
Feed manufacturers	7	Co-operative societies [@]	19837
Veterinary hospitals [@]	39	Dairy processing units ^{\$}	6

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	275	108	39.3	167	60.7	--
(a) Compliant	147	90	83.3	57	34.1	53.5
(b) Non-Compliant (NC)	128	18	16.7	110	65.9	46.5
(i) NC with quality issues	125	16	14.8	109	65.3	45.5
(ii) NC with safety issues	2	2	1.9	0	0.0	0.7
(iii) NC with both quality and safety issues	1	0	0.0	1	0.6	0.4
Total samples without safety issues	272	106	98.1	166	99.4	98.9

Bihar State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	125	16	14.8	109	65.3	45.5
NC for fat	76	6	5.6	70	41.9	27.6
NC for SNF	96	10	9.3	86	51.5	34.9
NC for Maltodextrin	1	1	0.9	0	0.0	0.4
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	3	2	1.9	1	0.6	1.1
Aflatoxin M1	2	1	0.9	1	0.6	0.7
Antibiotics	1	1	0.9	0	0.0	0.4
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Bihar State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla -NC	Antibiotics-NC	Pesticides-NC	Others-NC		
	BIHAR	275	147	128	76	96	0	1	126	2	1	0	0	3	
1	Chhapra	6	2	4	4	3	0	0	4	0	0	0	0	0	
2	Gopalganj	4	4	0	0	0	0	0	0	0	0	0	0	0	
3	Bettiah	5	1	4	3	1	0	0	4	0	0	0	0	0	
4	Patna	19	10	9	4	4	0	0	8	1	0	0	0	1	
5	Bagaha	5	1	4	3	4	0	0	4	0	0	0	0	0	
6	Phulwari Sharif	2	0	2	0	2	0	0	2	0	0	0	0	0	
7	Dinapur Nizamat	5	4	1	0	1	0	0	1	0	0	0	0	0	
8	Motihari	5	3	2	2	0	0	0	2	0	0	0	0	0	
9	Muzaffarpur	6	3	3	3	3	0	0	3	0	0	0	0	0	
10	Darbhanga	6	2	4	4	2	0	0	4	0	0	0	0	0	
11	Hajipur	5	3	2	1	1	0	1	2	0	0	0	0	0	
12	Masaurhi	3	2	1	1	1	0	0	1	0	0	0	0	0	
13	Arrah	6	3	3	1	3	0	0	3	0	0	0	0	0	
14	Dumraon	4	2	2	0	2	0	0	2	0	0	0	0	0	
15	Buxar	5	4	1	1	1	0	0	1	0	0	0	0	0	
16	Siwan	5	2	3	2	3	0	0	3	0	0	0	0	0	

Bihar State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
17	Raxaul Bazar	4	1	3	1	3	0	0	0	3	0	0	0	0	0
18	Sheohar	4	0	4	4	2	0	0	0	4	0	0	0	0	0
19	Sitamarhi	4	2	2	2	1	0	0	0	2	0	0	0	0	0
20	Benipur	4	3	1	1	0	0	0	0	1	0	0	0	0	0
21	Madhubani	4	0	4	3	1	0	0	0	3	0	1	0	0	1
22	Supaul	4	2	2	1	1	0	0	0	2	0	0	0	0	0
23	Bhabua	4	2	2	0	2	0	0	0	2	0	0	0	0	0
24	Sasaram	5	4	1	1	0	0	0	0	1	0	0	0	0	0
25	Dehri	5	3	2	1	2	0	0	0	2	0	0	0	0	0
26	Aurangabad	5	4	1	0	1	0	0	0	1	0	0	0	0	0
27	Saharsa	5	2	3	3	2	0	0	0	3	0	0	0	0	0
28	Forbesganj	4	3	1	1	1	0	0	0	1	0	0	0	0	0
29	Araria	4	1	3	1	3	0	0	0	3	0	0	0	0	0
30	Daudnagar	4	4	0	0	0	0	0	0	0	0	0	0	0	0
31	Arwal	4	1	3	2	3	0	0	0	3	0	0	0	0	0
32	Jehanabad	5	3	2	1	2	0	0	0	2	0	0	0	0	0
33	Gaya	6	4	2	1	2	0	0	0	2	0	0	0	0	0
34	Purnia	6	2	4	2	4	0	0	0	4	0	0	0	0	0
35	Nawada	4	2	2	0	2	0	0	0	2	0	0	0	0	0
36	Madhepura	4	1	3	3	3	0	0	0	3	0	0	0	0	0
37	Barauni	4	3	1	0	1	0	0	0	1	0	0	0	0	0

Bihar State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
38	Begusarai	6	4	2	1	1	0	0	0	2	0	0	0	0	0
39	Bihat	4	2	2	1	1	0	0	0	2	0	0	0	0	0
40	Teghra	4	2	2	1	2	0	0	0	2	0	0	0	0	0
41	Samastipur	4	2	2	2	0	0	0	0	2	0	0	0	0	0
42	Bhagalpur	6	3	3	2	2	0	0	0	3	0	0	0	0	0
43	Sultanganj	4	1	3	2	1	0	0	0	3	0	0	0	0	0
44	Biharsharif	6	5	1	1	1	0	0	0	1	0	0	0	0	0
45	Hilsa	4	4	0	0	0	0	0	0	0	0	0	0	0	0
46	Sheikhpura	4	3	1	0	1	0	0	0	1	0	0	0	0	0
47	Lakhisarai	4	2	2	2	2	0	0	0	2	0	0	0	0	0
48	Kishanganj	5	3	2	0	2	0	0	0	2	0	0	0	0	0
49	Katihar	5	3	2	2	2	0	0	0	2	0	0	0	0	0
50	Jamui	4	3	1	1	1	0	0	0	1	0	0	0	0	0
51	Banka	4	3	1	0	1	0	0	0	1	0	0	0	0	0
52	Munger	6	2	4	1	3	0	0	0	4	0	0	0	0	0
53	Jamalpur	5	4	1	0	1	0	0	0	1	0	0	0	0	0
54	Mokameh	4	2	2	1	2	0	0	0	2	1	0	0	0	1
55	Barh	4	2	2	0	2	0	0	0	2	0	0	0	0	0
56	Fatwah	4	2	2	0	2	0	0	0	2	0	0	0	0	0
57	Khagaria	4	2	2	2	2	0	0	0	2	0	0	0	0	0

Chandigarh State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1054686	86.43%	217548	76	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
14%	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	16,000	Milk production [^]	36 tons per annum
Feed manufacturers	4	Co-operative societies [@]	0
Veterinary hospitals [@]	5	Dairy processing units ^{\$}	2

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	20	8	40.0	12	60.0	--
(a) Compliant	11	3	37.5	8	66.7	55.0
(b) Non-Compliant (NC)	9	5	62.5	4	33.3	45.0
(i) NC with quality issues	4	1	12.5	3	25.0	20.0
(ii) NC with safety issues	3	3	37.5	0	0.0	15.0
(iii) NC with both quality and safety issues	2	1	12.5	1	8.3	10.0
Total samples without safety issues	15	4	50.0	11	91.7	75.0

Chandigarh State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	4	1	12.5	3	25.0	20.0
NC for fat	4	1	12.5	3	25.0	20.0
NC for SNF	4	1	12.5	3	25.0	20.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	5	4	50.0	1	8.3	25.0
Aflatoxin M1	4	3	37.5	1	8.3	20.0
Antibiotics	1	1	12.5	0	0.0	5.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters

Chandigarh State fact sheet

Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC		
1	CHANDIGARH	20	11	9	4	4	0	0	6	4	1	0	0	5	
	Chandigarh	20	11	9	4	4	0	0	6	4	1	0	0	5	



Chhattisgarh State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
25540196	71.04 %	84767	141	15

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
39 %	64.2 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	37,360	Milk production [^]	1374 tons per annum
Feed manufacturers	0	Co-operative societies [@]	924
Veterinary hospitals [@]	301	Dairy processing units ^{\$}	4

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	84	26	31.0	58	69.0	--
(a) Compliant	57	20	76.9	37	63.8	67.9
(b) Non-Compliant (NC)	27	6	23.1	21	36.2	32.1
(i) NC with quality issues	22	1	3.8	21	36.2	26.2
(ii) NC with safety issues	4	4	15.4	0	0.0	4.8
(iii) NC with both quality and safety issues	1	1	3.8	0	0.0	1.2
Total samples without safety issues	79	21	80.8	58	100.0	94.0

Chhattisgarh State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	22	1	3.8	21	36.2	26.2
NC for fat	20	1	3.8	19	32.8	23.8
NC for SNF	11	1	3.8	10	17.2	13.1
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	5	5	19.2	0	0.0	6.0
Aflatoxin M1	5	5	19.2	0	0.0	6.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Chhattisgarh State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant (NC)	Non compliant with Quality issues						Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla -NC	Antibiotics -NC	Pesticides -NC	Others - NC		
	CHHATTISGARH	84	57	27	20	11	0	0	0	23	5	0	0	0	5
1	Sukma	4	4	0	0	0	0	0	0	0	0	0	0	0	0
2	Raipur	9	6	3	1	2	0	0	2	2	1	0	0	0	1
3	Bhilai Nagar	8	5	3	2	2	0	0	3	3	0	0	0	0	0
4	Durg	6	3	3	3	1	0	0	3	3	0	0	0	0	0
5	Rajnandgaon	5	5	0	0	0	0	0	0	0	0	0	0	0	0
6	Bhilai Charoda	4	3	1	1	1	0	0	1	1	0	0	0	0	0
7	Birgaon	4	3	1	1	0	0	0	1	1	0	0	0	0	0
8	Mahasamund	4	3	1	1	0	0	0	1	1	0	0	0	0	0
9	Bhatapara	4	1	3	2	1	0	0	2	2	1	0	0	0	1
10	Bilaspur	6	4	2	2	2	0	0	2	2	0	0	0	0	0
11	Chirmiri	4	1	3	3	0	0	0	3	3	1	0	0	0	1
12	Ambikapur	5	3	2	2	1	0	0	2	2	0	0	0	0	0
13	Korba	6	5	1	1	0	0	0	1	1	0	0	0	0	0

Chhattisgarh State fact sheet

S.No	Town Name	No. Of Samples	Compliant	Non Compliant (NC)	Non compliant with Quality issues						Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla -NC	Antibiotics -NC	Pesticides -NC	Others - NC	Total NC with Safety issues		
14	CHHATTISGARH	84	57	27	20	11	0	0	0	23	5	0	0	0	0	5
	Raigarh	5	3	2	1	1	0	0	0	2	0	0	0	0	0	0
15	Dhamtari	5	4	1	0	0	0	0	0	0	1	0	0	0	0	1
16	Jagdulpur	5	4	1	0	0	0	0	0	0	1	0	0	0	0	1

Dadra and Nagar Haveli

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
342853	77.65%	0	62	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
17%	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	10,000	Milk production [^]	8tons per annum
Feed manufacturers	0	Co-operative societies [@]	0
Veterinary hospitals [@]	0	Dairy processing units ^{\$}	0

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	6	6	100.0	0	0.0	--
(a) Compliant	1	1	16.7	0	0.0	16.7
(b) Non-Compliant (NC)	5	5	83.3	0	0.0	83.3
(i) NC with quality issues	5	5	83.3	0	0.0	83.3
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	6	6	100.0	0	0	100.0

Dadra and Nagar Haveli

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	5	5	83.3	0	0.0	83.3
NC for fat	0	0	0.0	0	0.0	0.0
NC for SNF	5	5	83.3	0	0.0	83.3
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Dadra and Nagar Haveli

Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
1	DADRA & NAGAR HAVELI	6	1	5	0	5	0	0	0	5	0	0	0	0	0
	Silvassa	6	1	5	0	5	0	0	0	5	0	0	0	0	0

Daman and Diu State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
242911	87.07%	0	5	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,
& Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
19%	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>,
<http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	1,000	Milk production [^]	1 tons per annum
Feed manufacturers	0	Co-operative societies [@]	0
Veterinary hospitals [@]	0	Dairy processing units ^{\$}	0

Ref: [^]<http://www.animalhusbandry.com>,

[@] // dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf,17_Eng.pdf

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	12	7	58.3	5	41.7	--
(a) Compliant	6	3	42.9	3	60.0	50.0
(b) Non-Compliant (NC)	6	4	57.1	2	40.0	50.0
(i) NC with quality issues	6	4	57.1	2	40.0	50.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	12	7	100.0	5	100.0	100.0

Daman and Diu State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	6	4	57.1	2	40.0	50.0
NC for fat	1	0	0.0	1	20.0	8.3
NC for SNF	6	4	57.1	2	40.0	50.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Daman and Diu State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues		
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC		Others-NC	
1	Daman & Diu	12	6	6	1	6	0	0	0	6	0	0	0	0	0
2	Dabhel	6	1	5	0	5	0	0	5	0	0	0	0	0	0
3	Diu	6	5	1	1	1	0	0	1	0	0	0	0	0	0

Goa State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1457723	87.40 %	327059	68	3

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
8 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	41,000	Milk production [^]	51 tons per annum
Feed manufacturers	2	Co-operative societies [@]	182
Veterinary hospitals [@]	5	Dairy processing units ^{\$}	5

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	18	18	100.0	0	0.0	--
(a) Compliant	11	11	61.1	0	0.0	61.1
(b) Non-Compliant (NC)	7	7	38.9	0	0.0	38.9
(i) NC with quality issues	7	7	38.9	0	0.0	38.9
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	18	18	100.0	0	0.0	100.0

Goa State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	7	7	38.9	0	0.0	38.9
NC for fat	1	1	5.6	0	0.0	5.6
NC for SNF	7	7	38.9	0	0.0	38.9
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0.0	0.0	0.0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Goa State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues		
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC		Total NC	
1	Panaji	6	3	3	0	3	0	0	0	3	0	0	0	0	0	0
2	Mormugao	6	3	3	1	3	0	0	3	3	0	0	0	0	0	0
3	Margao	6	5	1	0	1	0	0	1	1	0	0	0	0	0	0

Gujarat State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
60383628	79.31 %	140273	563	64

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
30 %	68.15 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	97,870	Milk production [^]	12784 tons per annum
Feed manufacturers	21	Co-operative societies [@]	18595
Veterinary hospitals [@]	33	Dairy processing units ^{\$}	45

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	456	113	24.8	343	75.2	--
(a) Compliant	212	46	40.7	166	48.4	46.5
(b) Non-Compliant (NC)	244	67	59.3	177	51.6	53.5
(i) NC with quality issues	226	61	54.0	165	48.1	49.6
(ii) NC with safety issues	10	2	1.8	8	2.3	2.2
(iii) NC with both quality and safety issues	8	4	3.5	4	1.2	1.8
Total samples without safety issues	438	107	94.7	331	96.5	96.1

Gujarat State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	226	61	54.0	165	48.1	49.6
NC for fat	85	8	7.1	77	22.4	18.6
NC for SNF	208	59	52.2	149	43.4	45.6
NC for Maltodextrin	5	4	3.5	1	0.3	1.1
NC for Sugar	6	2	1.8	4	1.2	1.3

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	18	6	5.3	12	3.5	3.9
Aflatoxin M1	12	3	2.7	9	2.6	2.6
Antibiotics	6	3	2.7	3	0.9	1.3
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters

Gujarat State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues			
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC
456	GUJARAT	212	244	85	208	6	5	234	12	6	0	0	18
1	Ahwa	5	4	1	1	0	0	1	0	0	0	0	0
2	Balasinor	5	2	3	0	0	0	0	3	0	0	0	3
3	Chota udaipur	5	0	5	2	3	0	5	0	0	0	0	0
4	Halvad	5	4	1	1	0	0	1	0	0	0	0	0
5	Jamkhambaliya	5	3	2	1	2	0	2	0	1	0	0	1
6	Junawada	5	3	2	1	2	0	2	0	0	0	0	0
7	Wankaner	5	3	2	1	2	0	2	0	0	0	0	0
8	Ahmadabad	52	20	32	18	29	0	31	0	1	0	0	1
9	Sanand	4	1	3	2	3	0	3	0	0	0	0	0
10	Viramgam	4	1	3	1	3	0	3	0	0	0	0	0
11	Dholka	2	0	2	2	1	0	2	0	0	0	0	0
12	Kalol	5	3	2	2	1	0	2	0	0	0	0	0
13	Gandhinagar	6	4	2	1	1	0	2	0	0	0	0	0
14	Kadi	3	3	0	0	0	0	0	0	0	0	0	0
15	Mahesana	6	3	3	0	3	0	3	0	0	0	0	0
16	Unjha	4	3	1	1	1	0	1	0	0	0	0	0

Gujarat State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues						
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues	
17 Visnagar	4	4	0	0	0	0	0	0	0	0	0	0	0	0
18 Patan	5	4	1	0	1	0	0	0	1	0	0	0	0	0
19 Sidhpur	6	5	1	1	1	0	0	0	1	0	0	0	0	0
20 Deesa	5	1	4	1	3	0	0	0	4	0	0	0	0	0
21 Palanpur	5	4	1	0	1	0	1	0	1	0	0	0	0	0
22 Modasa	4	2	2	1	1	0	1	0	2	0	0	0	0	0
23 Himatnagar	4	1	3	0	3	0	0	0	3	0	0	0	0	0
24 Anjar	4	2	2	0	2	0	0	0	2	0	0	0	0	0
25 Bhuj	5	3	2	2	2	0	0	0	2	0	0	0	0	0
26 Mandvi	4	1	3	1	3	0	0	0	3	0	0	0	0	0
27 Gandhidham	6	1	5	3	5	0	0	0	5	0	0	0	0	0
28 Jamnagar	8	0	8	0	8	1	1	0	8	0	0	0	0	0
29 Okha	4	1	3	2	3	0	0	0	3	0	0	0	0	0
30 Porbandar	5	2	3	0	2	1	0	0	3	0	0	0	0	0
31 Keshod	4	1	3	1	3	0	0	0	3	0	0	0	0	0
32 Junagadh	6	1	5	0	5	1	1	0	5	0	0	0	0	0
33 Mangrol	4	2	2	1	1	0	0	0	2	0	0	0	0	0
34 Veraval	5	1	4	3	4	0	0	0	4	0	0	0	0	0
35 Una	4	2	2	1	1	0	0	0	2	0	0	0	0	0
36 Sihor	4	4	0	0	0	0	0	0	0	0	0	0	0	0

Gujarat State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues	
37	Amreli	5	3	2	2	1	0	0	0	2	0	0	0	0	0
38	Savarkundla	4	2	2	0	2	0	0	0	2	0	0	0	0	0
39	Mahuva	4	3	1	1	0	0	0	0	1	0	0	0	0	0
40	Bhavnagar	8	7	1	0	0	0	0	0	0	0	1	0	0	1
41	Palitana	4	2	2	1	2	0	0	0	2	0	0	0	0	0
42	Botad	5	4	1	0	1	0	0	0	1	0	0	0	0	0
43	Wadhwan	4	3	1	0	1	0	0	0	1	0	0	0	0	0
44	Surendranagar Dudhrej	5	5	0	0	0	0	0	0	0	0	0	0	0	0
45	Dhrangadhra	4	4	0	0	0	0	0	0	0	0	0	0	0	0
46	Dhoraji	4	3	1	1	0	0	0	0	1	0	0	0	0	0
47	Upleta	4	2	2	1	2	1	0	0	2	0	0	0	0	0
48	Jetpur Navagadh	5	2	3	0	3	0	0	0	3	0	0	0	0	0
49	Gondal	5	3	2	2	2	0	0	0	2	0	0	0	0	0
50	Kotharia	4	0	4	2	2	1	0	0	4	0	0	0	0	0
51	Morvi	6	0	6	2	6	0	0	0	6	0	0	0	0	0
52	Anand	6	4	2	0	2	0	0	0	2	1	0	0	0	1
53	Petlad	4	2	2	1	0	0	0	0	1	2	0	0	0	2
54	Borsad	4	1	3	0	0	0	0	0	0	3	0	0	0	3
55	Khambhat	4	2	2	0	1	0	0	0	1	2	0	0	0	2
56	Rajkot	12	2	10	4	9	1	1	1	10	0	0	0	0	0

Gujarat State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues	
57	Nadiad	6	3	3	0	3	0	0	0	3	1	0	0	0	1
58	Dohad	5	2	3	1	3	0	0	0	3	0	0	0	0	0
59	Godhra	5	3	2	0	2	0	0	0	2	0	0	0	0	0
60	Halol	4	2	2	0	2	0	0	0	2	0	0	0	0	0
61	Vadodara	16	2	14	2	14	0	0	0	14	0	0	0	0	0
62	Dabhoi	4	1	3	1	2	0	0	0	3	0	0	0	0	0
63	Bharuch	5	2	3	0	3	0	0	0	3	0	0	0	0	0
64	Anklesvar	4	1	3	1	2	0	0	0	3	0	2	0	0	2
65	Surat	42	23	19	6	17	0	0	0	19	0	1	0	0	1
66	Bardoli	4	3	1	1	0	0	0	0	1	0	0	0	0	0
67	Navsari	5	4	1	0	1	0	0	0	1	0	0	0	0	0
68	Vijalpor	4	1	3	0	3	0	0	0	3	0	0	0	0	0
69	Bilimora	4	1	3	1	3	0	0	0	3	0	0	0	0	0
70	Valsad	5	1	4	0	4	0	0	0	4	0	0	0	0	0
71	Vapi	5	1	4	1	3	0	0	0	4	0	0	0	0	0
72	Rajpipla	5	1	4	2	3	0	0	0	4	0	0	0	0	0
73	Dediapada	5	3	2	1	2	0	0	0	2	0	0	0	0	0
74	Songadh	5	1	4	1	4	0	0	0	4	0	0	0	0	0
75	Vyara	5	4	1	1	1	0	0	0	1	0	0	0	0	0

Haryana State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
25353081	76.64 %	162034	930	31

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
33 %	67.95 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	37,580	Milk production [^]	8975 tons per annum
Feed manufacturers	7	Co-operative societies [@]	7318
Veterinary hospitals [@]	964	Dairy processing units ^{\$}	33

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	161	34	21.1	127	78.9	--
(a) Compliant	78	21	61.8	57	44.9	48.4
(b) Non-Compliant (NC)	83	13	38.2	70	55.1	51.6
(i) NC with quality issues	69	9	26.5	60	47.2	42.9
(ii) NC with safety issues	9	4	11.8	5	3.9	5.6
(iii) NC with both quality and safety issues	5	0	0.0	5	3.9	3.1
Total samples without safety issues	147	30	88.2	117	92.1	91.3

Haryana State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	68	8	23.5	60	47.2	42.2
NC for fat	34	6	17.6	28	22.0	21.1
NC for SNF	57	4	11.8	53	41.7	35.4
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	2	0	0.0	2	1.6	1.2

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	15	6	17.6	9	7.1	9.3
Aflatoxin M1	13	4	11.8	9	7.1	8.1
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Haryana State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total Quality -NC issues	Afla -NC	Antibiotics-NC	Pesticides-NC	Others-NC
	HARYANA	161	78	83	34	57	2	0	74	13	0	0	14
1	Panchkula	6	2	4	1	3	0	0	3	1	0	0	1
2	Ambala	4	2	2	0	2	0	0	2	0	0	0	0
3	Ambala Cantt.	4	2	2	0	2	0	0	2	0	0	0	0
4	Ambala Sadar	5	2	3	3	2	0	0	3	1	0	0	1
5	Jagadhri	5	4	1	1	1	0	0	1	0	0	0	0
6	Yamunanagar	6	2	4	3	3	0	0	4	0	0	0	0
7	Thanesar	5	1	4	1	3	0	0	4	1	0	0	1
8	Kaithal	5	2	3	0	2	0	0	2	1	0	0	1
9	Panipat Taraf Makhdum Zadgan	4	1	3	3	0	0	0	3	0	0	0	0
10	Panipat	6	4	2	1	1	0	0	2	0	0	0	0
11	Narwana	4	0	4	1	3	0	0	3	1	0	0	1
12	Karnal	6	5	1	0	1	0	0	1	0	0	0	0
13	Jind	5	3	2	1	1	0	0	1	1	0	0	1
14	Rohtak	6	3	3	1	1	0	0	2	0	0	0	1
15	Gohana	4	4	0	0	0	0	0	0	0	0	0	0
16	Sonipat	6	4	2	1	0	1	0	2	0	0	0	0
17	Bahadurgarh	5	3	2	1	2	0	0	2	0	0	0	0

Haryana State fact sheet



No.	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar Maltodextrin NC	Total NC with Quality issues	Afla -NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC Safety issues	
18	Gurgaon	8	3	5	2	3	0	0	4	1	0	0	0	1
19	Faridabad	13	3	10	4	9	0	0	10	0	0	0	0	0
20	Palwal	5	2	3	1	3	0	0	3	0	0	0	0	0
21	Hodal	4	1	3	1	3	0	0	3	0	0	0	0	0
22	Rewari	5	3	2	1	1	0	0	2	0	0	0	0	0
23	Charkhi Dadri	4	3	1	0	1	0	0	1	0	0	0	0	0
24	Narnaul	4	1	3	3	0	1	0	3	0	0	0	0	0
25	Bhiwani	5	5	0	0	0	0	0	0	0	0	0	0	0
26	Hansi	4	4	0	0	0	0	0	0	0	0	0	0	0
27	Hisar	6	4	2	0	0	0	0	0	2	0	0	0	2
28	Fatehabad	4	1	3	2	2	0	0	3	1	0	0	0	1
29	Sirsa	5	3	2	1	1	0	0	1	1	0	0	0	1
30	Mandi Dabwali	4	0	4	1	4	0	0	4	2	0	0	0	2
31	Tohana	4	1	3	0	3	0	0	3	0	0	0	0	0

Himachal Pradesh State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
6856509	83.78 %	134376	521	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
25 %	70.76 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	13,750	Milk production [^]	1329 tons per annum
Feed manufacturers	1	Co-operative societies@	918
Veterinary hospitals@	410	Dairy processing units\$	4

Ref: [^]<http://www.animalhusbandry.com>,

@ dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

\$<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	20	9	45.0	11	55.0	--
(a) Compliant	13	8	88.9	5	45.5	65.0
(b) Non-Compliant (NC)	7	1	11.1	6	54.5	35.0
(i) NC with quality issues	5	1	11.1	4	36.4	25.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	2	0	0.0	2	18.2	10.0
Total samples without safety issues	18	9	100.0	9	81.8	90.0

Himachal Pradesh State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	5	1	11.1	4	36.4	25.0
NC for fat	1	0	0.0	1	9.1	5.0
NC for SNF	7	1	11.1	6	54.5	35.0
NC for Maltodextrin	1	1	11.1	0	0.0	5.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	2	0	0.0	2	18.2	10.0
Aflatoxin M1	2	0	0.0	2	18.2	10.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Himachal Pradesh State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	
	HIMACHAL PRADESH	20	13	7	1	7	0	1	7	2	0	0	0	2
1	Baddi	4	3	1	0	1	0	0	1	0	0	0	0	0
2	Mandi	4	1	3	0	3	0	1	3	1	0	0	0	1
3	Solan	4	3	1	1	1	0	0	1	0	0	0	0	0
4	Shimla	8	6	2	0	2	0	0	2	1	0	0	0	1

Jammu & Kashmir State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
12548926	68.74 %	74653	400	7

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
24 %	71.9 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta Data – Dairy Industry

Cattle count [^]	16,44,00	Milk production [^]	2376 tons per annum
Feed manufacturers	2	Co-operative societies [@]	366
Veterinary hospitals [@]	293	Dairy processing units ^{\$}	4

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	104	34	32.7	70	67.3	--
(a) Compliant	53	19	55.9	34	48.6	51.0
(b) Non-Compliant (NC)	51	15	44.1	36	51.4	49.0
(i) NC with quality issues	51	15	44.1	36	51.4	49.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	104	34	100.0	70	100.0	100.0

Jammu & Kashmir State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	51	15	44.1	36	51.4	49.0
NC for fat	16	2	5.9	14	20.0	15.4
NC for SNF	45	13	38.2	32	45.7	43.3
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Jammu & Kashmir State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	JAMMU & KASHMIR	104	53	51	16	45	0	0	51	0	0	0	0	0
1	BADGAM	4	4	0	0	0	0	0	0	0	0	0	0	0
2	Baramula	4	3	1	0	0	0	1	1	0	0	0	0	0
3	DODA	4	1	3	0	3	0	0	3	0	0	0	0	0
4	KARGIL	4	2	2	2	0	0	0	2	0	0	0	0	0
5	Kishtwar	4	2	2	1	2	0	0	2	0	0	0	0	0
6	KULGAM	4	3	1	0	1	0	0	1	0	0	0	0	0
7	KUPWARA	4	4	0	0	0	0	0	0	0	0	0	0	0
8	PULWAMA	4	4	0	0	0	0	0	0	0	0	0	0	0
9	RAMBAN	4	0	4	1	4	0	0	4	0	0	0	0	0
10	Reasi	4	1	3	2	3	0	0	3	0	0	0	0	0

Jammu & Kashmir State fact sheet

Sl. No.	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues						
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
11	SAMBA	4	2	2	0	2	0	0	0	2	0	0	0	0	0
12	Sapore	4	3	1	0	1	0	0	0	1	0	0	0	0	0
13	SHUPIYAN	4	4	0	0	0	0	0	0	0	0	0	0	0	0
14	Jammu	8	6	2	1	1	0	0	0	2	0	0	0	0	0
15	Kathua	4	0	4	0	4	0	0	0	4	0	0	0	0	0
16	Udhampur	4	1	3	1	3	0	0	0	3	0	0	0	0	0
17	Rajauri	4	0	4	2	3	0	0	0	4	0	0	0	0	0
18	Punch	4	1	3	2	3	0	0	0	3	0	0	0	0	0
19	Srinagar	11	1	10	0	10	0	0	0	10	0	0	0	0	0
20	Anantnag	5	5	0	0	0	0	0	0	0	0	0	0	0	0
21	Ganderbal	4	2	2	0	2	0	0	0	2	0	0	0	0	0
22	Bandipore	4	1	3	2	3	0	0	0	3	0	0	0	0	0
23	Leh Ladakh	4	3	1	1	0	0	0	0	1	0	0	0	0	0

Jharkhand State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
32966238	67.63 %	59628	157	22

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
29 %	65.8 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	30,200	Milk production [^]	1894 tons per annum
Feed manufacturers	0	Co-operative societies [@]	540
Veterinary hospitals [@]	27	Dairy processing units ^{\$}	3

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	151	87	57.6	64	42.4	--
(a) Compliant	90	59	67.8	31	48.4	59.6
(b) Non-Compliant (NC)	61	28	32.2	33	51.6	40.4
(i) NC with quality issues	61	28	32.2	33	51.6	40.4
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	151	87	100.0	64	100.0	100.0

Jharkhand State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	61	28	32.2	33	51.6	40.4
NC for fat	26	13	14.9	13	20.3	17.2
NC for SNF	45	18	20.7	27	42.2	29.8
NC for Maltodextrin	7	7	8.0	0	0.0	4.6
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Jharkhand State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC
	JHARKHAND	151	90	61	26	45	0	7	61	0	0	0	0
1	Simdega	4	2	2	2	1	0	0	2	0	0	0	0
2	Ranchi	10	3	7	2	7	0	2	7	0	0	0	0
3	Hazaribag	5	0	5	2	5	0	1	5	0	0	0	0
4	Ramgarh Cantonment	4	1	3	2	1	0	0	3	0	0	0	0
5	Saunda	4	2	2	2	0	0	0	2	0	0	0	0
6	Khunti	4	2	2	0	2	0	1	2	0	0	0	0
7	Chakardharpur	4	1	3	2	3	0	0	3	0	0	0	0
8	Chaibasa	4	2	2	1	1	0	0	2	0	0	0	0
9	Mango	6	5	1	0	1	0	0	1	0	0	0	0
10	Jamshedpur	8	6	2	0	2	0	0	2	0	0	0	0
11	Bagbera	4	2	2	1	1	0	0	2	0	0	0	0
12	Adityapur	5	3	2	0	1	0	1	2	0	0	0	0
13	Gumla	4	2	2	1	1	0	0	2	0	0	0	0
14	Lohardaga	4	3	1	0	1	0	0	1	0	0	0	0
15	Latehar	4	4	0	0	0	0	0	0	0	0	0	0

Jharkhand State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues							
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides-NC	Others- NC	Total NC with Safety issues		
16 Medininagar (Daltonganj)	4	2	2	1	1	0	0	0	0	2	0	0	0	0	0
17 Garhwa	4	3	1	1	0	0	0	0	0	1	0	0	0	0	0
18 Chatra	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Jhumri Tilaiya	4	3	1	0	1	0	0	0	0	1	0	0	0	0	0
20 Giridih	5	3	2	2	2	0	0	0	0	2	0	0	0	0	0
21 Madhupur	4	2	2	1	1	0	0	0	0	2	0	0	0	0	0
22 Deoghar	6	4	2	1	1	0	1	0	0	2	0	0	0	0	0
23 Dumka	4	2	2	0	2	0	0	0	0	2	0	0	0	0	0
24 Godda	4	3	1	0	1	0	0	0	0	1	0	0	0	0	0
25 Sahibganj	4	2	2	1	2	0	0	0	0	2	0	0	0	0	0
26 Pakaur	4	2	2	1	2	0	0	0	0	2	0	0	0	0	0
27 Jamtara	4	1	3	1	2	0	1	0	0	3	0	0	0	0	0
28 Dhanbad	11	8	3	1	2	0	0	0	0	3	0	0	0	0	0
29 Chas	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Bokaro Steel City	6	5	1	0	1	0	0	0	0	1	0	0	0	0	0
31 Phusro	4	3	1	1	0	0	0	0	0	1	0	0	0	0	0

Karnataka State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
61130704	75.60 %	142267	291	65

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
24 %	67.7 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	64,250	Milk production [^]	6562 tons per annum
Feed manufacturers	38	Co-operative societies [@]	15185
Veterinary hospitals [@]	694	Dairy processing units ^{\$}	31

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	386	220	57.0	166	43.0	--
(a) Compliant	224	128	58.2	96	57.8	58.0
(b) Non-Compliant (NC)	162	92	41.8	70	42.2	42.0
(i) NC with quality issues	149	82	37.3	67	40.4	38.6
(ii) NC with safety issues	9	7	3.2	2	1.2	2.3
(iii) NC with both quality and safety issues	4	3	1.4	1	0.6	1.0
Total samples without safety issues	373	210	95.5	163	98.2	96.6

Karnataka State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	123	56	25.5	67	40.4	31.9
NC for fat	49	27	12.3	22	13.3	12.7
NC for SNF	136	75	34.1	61	36.7	35.2
NC for Maltodextrin	6	6	2.7	0	0.0	1.6
NC for Sugar	1	1	0.5	0	0.0	0.3

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	13	10	4.5	3	1.8	3.4
Aflatoxin M1	8	5	2.3	3	1.8	2.1
Antibiotics	5	5	2.3	0	0.0	1.3
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Karnataka State fact sheet



Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues			
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	KARNATAKA	386	224	162	49	136	1	6	153	8	5	0	0	13
1	Puttur	4	2	2	0	1	0	0	1	1	0	0	0	1
2	Sagar	4	1	3	1	2	0	0	3	0	0	0	0	0
3	Bidar	6	6	0	0	0	0	0	0	0	0	0	0	0
4	Basavakalyan	4	3	1	1	1	0	0	1	0	0	0	0	0
5	Yadgir	4	2	2	1	1	1	0	2	0	0	0	0	0
6	Shahpur	4	4	0	0	0	0	0	0	0	0	0	0	0
7	Gulbarga	8	5	3	0	3	0	0	3	0	0	0	0	0
8	Shorapur	4	2	2	0	2	0	0	2	0	0	0	0	0
9	Raichur	6	2	4	2	3	0	0	4	0	0	0	0	0
10	Sindhur	4	3	1	0	1	0	0	1	0	0	0	0	0
11	Gangawati	5	4	1	1	1	0	0	1	0	0	0	0	0
12	Koppal	4	1	3	0	2	0	0	2	1	1	0	0	2
13	Ilkal	4	1	3	1	3	0	0	3	0	0	0	0	0
14	Bagalkot	5	2	3	1	2	0	0	2	0	1	0	0	1

Karnataka State fact sheet



Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
				Fat NC	SNF NC	Sugar NC	Maltodextrin- NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues	
15 Rabkavi Banhatti	4	2	2	1	1	0	0	2	0	0	0	0	0	0
16 Mudhol	4	3	1	0	1	0	0	1	0	0	0	0	0	0
17 Jamkhandi	4	2	2	0	2	0	0	2	0	0	0	0	0	0
18 Bijapur	6	2	4	0	4	0	0	4	0	0	0	0	0	0
19 Gokak	4	2	2	0	2	0	0	2	0	0	0	0	0	0
20 Belgaum	6	4	2	2	1	0	0	2	0	0	0	0	0	0
21 Nipani	4	1	3	0	3	0	0	3	0	0	0	0	0	0
22 Hubli-Dharwad	8	6	2	1	1	0	0	2	0	0	0	0	0	0
23 Gadag-Betigeri	5	4	1	0	1	0	0	1	0	0	0	0	0	0
24 Hospet	6	2	4	2	3	0	0	4	0	0	0	0	0	0
25 Siruguppa	4	1	3	2	1	0	0	2	0	1	0	0	0	1
26 Bellary	6	2	4	0	4	0	0	4	0	0	0	0	0	0
27 Challakere	4	3	1	0	1	0	0	1	0	0	0	0	0	0
28 Chitradurga	5	1	4	1	3	0	0	3	0	1	0	0	0	1
29 Hiriyur	4	3	1	1	1	0	0	1	0	0	0	0	0	0
30 Davanagere	6	2	4	0	4	0	0	4	0	0	0	0	0	0
31 Harihar	4	3	1	0	1	0	0	1	0	0	0	0	0	0
32 Ranibennur	5	3	2	0	1	0	0	1	0	1	0	0	0	1
33 Haveri	4	2	2	1	1	0	0	2	0	0	0	0	0	0

Karnataka State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- Others- NC	Total NC with Safety issues	
34 Sirsi	4	3	1	1	1	0	0	1	0	0	0	0	0
35 Karwar	4	2	2	0	2	0	0	2	0	0	0	0	0
36 Dandeli	4	2	2	1	2	0	0	2	0	0	0	0	0
37 Shimoga	6	3	3	2	3	0	0	3	0	0	0	0	0
38 Bhadravati	5	3	2	0	2	0	0	2	0	0	0	0	0
39 Arsikere	4	2	2	2	1	0	0	2	0	0	0	0	0
40 Chikmagalur	5	3	2	0	2	0	0	2	0	0	0	0	0
41 Tiptur	4	3	1	0	1	0	0	1	0	0	0	0	0
42 Hassan	5	5	0	0	0	0	0	0	0	0	0	0	0
43 Tumkur	6	6	0	0	0	0	0	0	0	0	0	0	0
44 Sira	4	2	2	2	1	0	0	2	0	0	0	0	0
45 Chikkaballapura	4	0	4	0	4	0	2	4	0	0	0	0	0
46 Sidlaghatta	4	0	4	3	4	0	2	4	0	0	0	0	0
47 Chintamani	4	0	4	2	4	0	2	4	0	0	0	0	0
48 Kolar	5	0	5	3	5	0	0	5	0	0	0	0	0
49 Mulbagal	4	0	4	0	4	0	0	4	0	0	0	0	0
50 Robertson Pet	5	3	2	0	2	0	0	2	0	0	0	0	0

Karnataka State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC		Others- NC
51 Dod Ballapur	4	2	2	1	2	0	0	2	0	0	0	0	0
52 Hosakote	4	3	1	0	1	0	0	1	0	0	0	0	0
53 Ramanagara	4	3	1	1	0	0	0	1	0	0	0	0	0
54 Channapatna	4	3	1	1	0	0	0	1	0	0	0	0	0
55 Kanakapura	4	3	1	0	1	0	0	1	0	0	0	0	0
56 Kollegal	4	3	1	0	0	0	0	0	1	0	0	0	1
57 Chamarajanagar	4	2	2	0	2	0	0	2	0	0	0	0	0
58 Nanjangud	4	4	0	0	0	0	0	0	0	0	0	0	0
59 Mysore	8	4	4	0	4	0	0	4	0	0	0	0	0
60 Hunsur	4	4	0	0	0	0	0	0	0	0	0	0	0
61 Mandya	5	3	2	0	2	0	0	2	1	0	0	0	1
62 BBMP	81	48	33	11	27	0	0	31	4	0	0	0	4
63 Madikeri	5	5	0	0	0	0	0	0	0	0	0	0	0
64 Mangalore	6	6	0	0	0	0	0	0	0	0	0	0	0
65 Ullal	4	3	1	0	1	0	0	1	0	0	0	0	0
66 Udupi	5	5	0	0	0	0	0	0	0	0	0	0	0

Kerala State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption	No. of towns above 50K population*
33387677	93.91 %	147552	189	40

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,

Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
10 %	72.92 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	67,600	Milk production [^]	6562 tons per annum
Feed manufacturers	38	Co-operative societies [@]	15185
Veterinary hospitals [@]	694	Dairy processing units ^{\$}	31

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	187	104	55.6	83	44.4	--
(a) Compliant	103	67	64.4	36	43.4	55.1
(b) Non-Compliant (NC)	84	37	35.6	47	56.6	44.9
(i) NC with quality issues	46	8	7.7	38	45.8	24.6
(ii) NC with safety issues	30	24	23.1	6	7.2	16.0
(iii) NC with both quality and safety issues	8	5	4.8	3	3.6	4.3
Total samples without safety issues	149	75	72.1	74	89.2	79.7

Kerala State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	46	8	7.7	38	45.8	24.6
NC for fat	30	4	3.8	26	31.3	16.0
NC for SNF	31	10	9.6	21	25.3	16.6
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	1	0	0.0	1	1.2	0.5

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	38	29	27.9	9	10.8	20.3
Aflatoxin M1	37	29	27.9	8	9.6	19.8
Antibiotics	1	1	1.0	0	0.0	0.5
Pesticides	1	0	0.0	1	1.2	0.5
NC for Others	1	0	0.0	1	1.2	0.5
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Kerala State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
1	KERALA	187	103	84	30	31	1	0	54	37	1	1	1	38
2	ERNAKULAM	6	3	3	3	1	0	0	3	0	0	0	0	0
3	Kalamassery	5	3	2	0	1	0	0	1	1	0	0	1	2
4	Edathala	4	2	2	1	0	0	0	1	2	0	0	0	2
5	Vazhakkala	3	0	3	2	2	0	0	3	0	0	0	0	0
6	Kochi	5	1	4	3	2	0	0	4	0	0	0	0	0
7	Thrippunithura	6	1	5	4	0	0	0	4	2	0	0	0	2
8	Kochi	5	2	3	2	3	0	0	3	0	0	0	0	0
9	Alappuzha	6	4	2	2	0	0	0	2	0	0	0	0	0
10	Kayamkulam	4	3	1	1	1	0	0	1	0	0	0	0	0
11	Kollam	6	4	2	1	2	0	0	2	0	0	0	0	0
12	Thiruvananthapuram	8	5	3	1	2	0	0	3	0	0	0	0	0
13	Pallichal	4	1	3	0	3	0	0	3	0	0	0	0	0
14	Neyyattinkara	4	3	1	0	1	0	0	1	0	0	0	0	0
15	Nedumangad	4	1	3	0	3	0	0	3	0	0	0	0	0
16	Thiruvalla	4	4	0	0	0	0	0	0	0	0	0	0	0
17	Kottayam	4	3	1	1	0	0	0	1	0	0	0	0	0
18	Thodupuzha	4	2	2	0	1	0	0	1	1	0	0	0	1
19	Kodungallur	4	1	3	1	0	0	0	1	2	0	0	0	2
20	Thrissur	6	4	2	1	1	0	0	2	0	0	0	0	0

Kerala State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
20 Kunnamkulam	4	2	2	1	1	1	0	0	0	0	0	0	0
21 Ottappalam	4	1	3	2	1	0	0	0	0	0	0	0	0
22 Palakkad	5	4	1	1	0	0	0	0	0	0	0	0	0
23 Malappuram	5	0	5	0	1	0	0	0	0	0	0	0	5
24 Manjeri	4	0	4	0	0	0	0	0	0	0	0	0	4
25 Tirur	4	0	4	0	0	0	0	0	0	0	0	0	4
26 Ponnani	4	0	4	3	0	0	0	0	0	0	0	0	4
27 Tirurangadi	4	3	1	0	0	0	0	0	0	0	0	0	1
28 Thennala	4	3	1	0	0	0	0	0	0	0	0	0	1
29 Moonniyur	4	3	1	0	0	0	0	0	0	0	0	0	1
30 Kozhikode	8	7	1	0	0	0	0	0	0	0	0	0	1
31 Vadakara	4	3	1	0	0	0	0	0	0	0	0	0	1
32 Quilandy	4	2	2	0	0	0	0	0	0	0	0	0	2
33 Beypore	4	3	1	0	0	0	0	0	0	0	0	0	1
34 Cheruvannur	4	4	0	0	0	0	0	0	0	0	0	0	0
35 Thalassery	4	0	4	0	4	0	0	0	0	0	0	0	1
36 Kannur	4	3	1	0	1	0	0	0	0	0	0	0	0
37 Taliparamba	4	3	1	0	0	0	0	0	0	0	0	0	1
38 Payyannur	4	4	0	0	0	0	0	0	0	0	0	0	0
39 Kanhangad	4	4	0	0	0	0	0	0	0	0	0	0	0
40 Kasaragod	5	3	2	0	0	0	0	0	0	0	0	0	2
41 Kalpetta	4	4	0	0	0	0	0	0	0	0	0	0	0

Lakshadweep State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
64429	92.28 %	-	110	2

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
19 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count^	2,000	Milk production^	3 tons per annum
Feed manufacturers	-	Co-operative societies@	-
Veterinary hospitals@	3	Dairy processing units\$	-

Ref: ^<http://www.animalhusbandry.com>,

@ dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

\$<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	4	4	100.0	0	0.0	--
(a) Compliant	1	1	25.0	0	0.0	25.0
(b) Non-Compliant (NC)	3	3	75.0	0	0.0	75.0
(i) NC with quality issues	3	3	75.0	0	0.0	75.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	4	4	100.0	0	0.0	100.0

Lakshadweep State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	3	3	75.0	0	0.0	75.0
NC for fat	0	0	0.0	0	0.0	0.0
NC for SNF	3	3	75.0	0	0.0	75.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3 : Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Lakshadweep State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
1	LAKSHADWEEP	4	1	3	0	3	0	0	0	3	0	0	0	0	0
2	Kavaratti	2	1	1	0	1	0	0	0	1	0	0	0	0	0
2	Andrott	2	0	2	0	2	0	0	0	2	0	0	0	0	0

Madhya Pradesh State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
72597565	70.63 %	61204	468	63

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
47 %	64.33 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	11204	Milk production [^]	13445 tons per annum
Feed manufacturers	17	Co-operative societies [@]	9247
Veterinary hospitals [@]	1063	Dairy processing units ^{\$}	18

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	335	68	20.3	267	79.7	--
(a) Compliant	139	24	35.3	115	43.1	41.5
(b) Non-Compliant (NC)	196	44	64.7	152	56.9	58.5
(i) NC with quality issues	162	37	54.4	125	46.8	48.4
(ii) NC with safety issues	18	5	7.4	13	4.9	5.4
(iii) NC with both quality and safety issues	16	2	2.9	14	5.2	4.8
Total samples without safety issues	301	61	89.7	240	89.9	89.9

Madhya Pradesh State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	162	37	54.4	125	46.8	48.4
NC for fat	52	14	20.6	38	14.2	15.5
NC for SNF	160	27	39.7	133	49.8	47.8
NC for Maltodextrin	1	1	1.5	0	0.0	0.3
NC for Sugar	8	4	5.9	4	1.5	2.4

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	34	7	10.3	27	10.1	10.1
Aflatoxin M1	12	4	5.9	8	3.0	3.6
Antibiotics	23	3	4.4	20	7.5	6.9
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	2	0	0.0	2	0.7	0.6
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	2	0	0.0	2	0.7	0.6

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Madhya Pradesh State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	MADHYA PRADESH	335	139	196	52	160	8	1	178	12	23	0	2	34
1	Bhopal	17	11	6	0	6	0	0	6	0	0	0	0	0
2	Kolar	4	3	1	0	1	0	0	1	0	0	0	0	0
3	Sehore	5	1	4	0	4	0	0	4	0	0	0	0	0
4	Ashta	4	4	0	0	0	0	0	0	0	0	0	0	0
5	Shajapur	5	4	1	0	1	0	0	1	0	0	0	0	0
6	Shujalpur	4	1	3	0	3	0	0	3	0	0	0	0	0
7	Ujjain	7	6	1	0	1	0	0	1	0	0	0	0	0
8	Dewas	6	1	5	0	5	0	0	5	0	0	0	0	0
9	Indore	19	12	7	0	7	0	0	7	1	0	0	0	1
10	Bangarda Chhota	4	1	3	0	3	0	0	3	0	0	0	0	0
11	Mhow Cantt	4	1	3	1	2	0	0	3	0	0	0	0	0
12	Pithampur	5	3	2	0	2	0	0	2	0	0	0	0	0
13	Dhar	4	4	0	0	0	0	0	0	0	0	0	0	0
14	Nagda	5	2	3	0	1	1	0	2	0	2	0	0	2
15	Ratlam	6	1	5	1	2	1	0	3	0	3	0	0	3
16	Jaora	4	0	4	0	4	0	0	4	0	1	0	0	1
17	Raghogarh -Vijaypur	5	0	5	2	4	2	0	5	0	0	0	0	0
18	Guna	4	1	3	2	3	1	0	3	0	0	0	0	0

Madhya Pradesh State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC		Others-NC
19 Ashoknagar	4	1	3	2	3	0	0	0	0	0	0	0	0
20 Shivpuri	5	5	0	0	0	0	0	0	0	0	0	0	0
21 Mandsaur	6	2	4	1	4	0	0	0	0	0	0	0	0
22 Neemuch	5	2	3	0	3	0	0	0	0	0	0	0	0
23 Morena	6	4	2	1	2	0	0	0	0	0	0	0	0
24 Sheopur	4	3	1	1	1	0	0	0	0	0	0	0	0
25 Gwalior	10	6	4	0	4	0	0	0	0	0	0	0	0
26 Dabra	4	1	3	0	3	0	0	0	0	0	0	0	0
27 Bhind	5	3	2	1	1	1	0	2	0	1	0	0	1
28 Gohad	4	0	4	1	3	1	0	4	0	0	0	0	0
29 Datia	5	4	1	0	0	1	0	1	0	0	0	0	0
30 Tikamgarh	4	2	2	0	2	0	0	2	0	0	0	0	0
31 Chhatarpur	5	1	4	1	4	0	0	4	0	0	0	0	0
32 Panna	4	0	4	0	4	0	0	4	0	0	0	0	0
33 Satna	6	2	4	0	4	0	0	4	0	1	0	0	1
34 Rewa	6	4	2	1	1	0	0	2	0	0	0	0	0
35 Sidhi	4	4	0	0	0	0	0	0	0	0	0	0	0
36 Singrauli	6	2	4	2	2	0	0	4	1	0	0	0	1
37 Shahdol	4	2	2	1	2	0	0	2	0	0	0	0	0
38 KMurwara (Katni)	6	1	5	1	3	0	0	3	2	1	0	0	3
39 Jabalpur	11	4	7	3	3	0	0	4	2	2	0	0	4
40 Jabalpur Cantt	5	4	1	0	1	0	0	1	0	0	0	0	0
41 Mandla	4	4	0	0	0	0	0	0	0	0	0	0	0

Madhya Pradesh State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC		Total NC with Safety issues
42 Balaghat	4	1	3	2	3	0	0	3	0	0	0	0	0
43 Seoni	5	1	4	0	4	0	0	4	0	0	0	0	0
44 Chhindwara	5	1	4	1	4	0	0	4	0	0	0	0	0
45 Betul	5	1	4	2	4	0	0	4	0	0	0	0	0
46 Sarni	4	1	3	2	2	0	0	3	0	0	0	0	0
47 Itarsi	4	1	3	0	3	0	1	3	0	0	0	0	0
48 Hoshangabad	4	1	3	0	3	0	0	3	0	1	0	0	1
49 Harda	4	0	4	0	1	0	0	1	0	3	0	0	3
50 Khandwa	6	1	5	1	1	0	0	2	3	2	0	1	4
51 Burhanpur	6	1	5	2	4	0	0	4	1	5	0	0	5
52 Khargone	5	2	3	2	2	0	0	3	0	0	0	0	0
53 Sendhwa	4	0	4	2	3	0	0	3	0	0	0	1	1
54 Barwani	4	1	3	2	3	0	0	3	0	1	0	0	1
55 Vidisha	5	1	4	2	3	0	0	4	0	0	0	0	0
56 Basoda	4	2	2	1	2	0	0	2	0	0	0	0	0
57 Sironj	4	2	2	1	2	0	0	2	0	0	0	0	0
58 Bina- Etawa	4	0	4	0	3	0	0	3	1	0	0	0	1
59 Khurai	4	0	4	1	4	0	0	4	0	0	0	0	0
60 Sagar	6	1	5	3	3	0	0	5	0	0	0	0	0
61 Damoh	5	1	4	2	3	0	0	3	1	0	0	0	1
62 Narsimhapur	4	2	2	2	2	0	0	2	0	0	0	0	0
63 Mandideep	4	1	3	2	2	0	0	3	0	0	0	0	0

Maharashtra State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
112372972	82.91 %	147399	243	98

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
19 %	70.1 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	8799	Milk production [^]	10402 tons per annum
Feed manufacturers	52	Co-operative societies [@]	20267
Veterinary hospitals [@]	200	Dairy processing units ^{\$}	161

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf,17_Eng.pdf

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	678	234	34.5	444	65.5	--
(a) Compliant	402	145	62.0	257	57.9	59.3
(b) Non-Compliant (NC)	276	89	38.0	187	42.1	40.7
(i) NC with quality issues	247	76	32.5	171	38.5	36.4
(ii) NC with safety issues	18	7	3.0	11	2.5	2.7
(iii) NC with both quality and safety issues	11	6	2.6	5	1.1	1.6
Total samples without safety issues	649	221	94.4	428	96.4	95.7

Maharashtra State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	234	65	27.8	169	38.1	34.5
NC for fat	147	16	6.8	131	29.5	21.7
NC for SNF	194	71	30.3	123	27.7	28.6
NC for Maltodextrin	7	5	2.1	2	0.5	1.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	49	31	13.2	18	4.1	7.2
Aflatoxin M1	20	9	3.8	11	2.5	2.9
Antibiotics	9	4	1.7	5	1.1	1.3
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Maharashtra State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues			
					Fat NC	Sugar SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	MAHARASHTRA	678	402	276	147	194	7	258	20	9	0	0	29
1	Gondiya	4	2	2	1	2	0	2	0	0	0	0	0
2	Greater Mumbai Part1	55	31	24	15	14	1	22	1	1	0	0	2
3	Pune	39	23	16	10	12	0	14	5	2	0	0	7
4	Greater Mumbai Part1	1	1	0	0	0	0	0	0	0	0	0	0
5	Thane	18	12	6	5	1	0	5	0	1	0	0	1
6	Bhadravati	4	1	3	0	3	0	3	0	0	0	0	0
7	Kirkee	6	0	6	1	4	0	4	3	0	0	0	3
8	Pimpri Chinchwad	17	5	12	3	12	0	12	2	0	0	0	2
9	Kharghar	4	1	3	3	2	0	3	0	0	0	0	0
10	Navi Mumbai Panvel Raigarh	5	1	4	2	2	0	4	0	0	0	0	0
11	Khopoli	4	3	1	1	0	0	1	0	0	0	0	0

Maharashtra State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC		Others- NC
12 Panvel	5	4	1	1	0	0	0	1	0	0	0	0	0
13 Bhiwandi Nizampur	8	6	2	1	0	0	0	1	1	0	0	0	1
14 Lonavala	6	0	6	3	4	0	0	6	0	0	0	0	0
15 Talegaon Dabhade	6	3	3	1	3	0	0	3	0	1	0	0	1
16 Navi Mumbai	10	7	3	2	0	0	0	2	0	1	0	0	1
17 Mira-Bhayandar	8	4	4	4	1	0	0	4	0	0	0	0	0
18 Ulhasnagar	8	6	2	2	0	0	0	2	0	0	0	0	0
19 Badlapur	5	5	0	0	0	0	0	0	0	0	0	0	0
20 Baramati	6	5	1	0	1	0	0	1	0	0	0	0	0
21 Ambarnath	6	2	4	4	2	0	0	4	0	0	0	0	0
22 Phaltan	6	3	3	2	1	0	0	3	0	0	0	0	0
23 Kalyan-Dombivli	12	2	10	8	7	0	0	8	2	0	0	0	2
24 Satara	6	3	3	1	3	0	0	3	0	0	0	0	0
25 Karad	6	6	0	0	0	0	0	0	0	0	0	0	0
26 Palghar	9	6	3	3	2	0	0	3	0	0	0	0	0
27 Vasai-Virar City	11	5	6	4	2	0	0	6	1	0	0	0	1
28 Uran Islampur	7	5	2	1	2	0	0	2	0	0	0	0	0

Maharashtra State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
				Fat NC	SNF NC	Sugar Maltodextrin NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues	
29 Dahanu	4	2	2	0	1	0	1	0	1	1	0	0	2
30 Kolhapur	9	5	4	2	3	0	3	0	0	1	0	0	1
31 Chiplun	3	3	0	0	0	0	0	0	0	0	0	0	0
32 Ratnagiri	4	2	2	2	1	0	2	0	0	0	0	0	0
33 Ichalkaranji	8	7	1	0	0	1	1	0	0	0	0	0	0
34 Sangli Miraj Kupwad	9	8	1	0	1	1	1	0	0	0	0	0	0
35 Malwan	3	3	0	0	0	0	0	0	0	0	0	0	0
36 Sawantwadi	3	2	1	1	0	0	1	0	0	0	0	0	0
37 Pandharpur	6	4	2	1	1	0	2	0	0	0	0	0	0
38 Solapur	10	6	4	2	2	0	4	0	0	0	0	0	0
39 Barshi	7	0	7	4	6	0	7	0	0	0	0	0	0
40 Nashik	14	12	2	2	1	0	2	0	0	0	0	0	0
41 Deolali	4	3	1	0	1	0	1	0	0	0	0	0	0
42 Nagpur	23	10	13	4	12	0	13	1	0	0	0	0	0
43 Sinnar	4	3	1	1	0	0	1	0	0	0	0	0	0
44 Ozar	4	3	1	1	0	0	1	0	0	0	0	0	0
45 Manmad	4	3	1	1	1	0	1	0	0	0	0	0	0
46 Malegaon	6	3	3	3	1	0	3	1	0	0	0	0	0

Maharashtra State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
				Fat NC	SNF NC	Sugar Maltodextrin NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC		
47 Dhule	6	5	1	1	0	0	1	0	0	0	0	0	0
48 Shirpur-Warwade	4	3	1	1	0	0	1	0	0	0	0	0	0
49 Jalgaon	7	5	2	1	0	0	1	0	0	1	0	0	1
50 Bhusawal	5	3	2	1	2	0	2	0	0	0	0	0	0
51 Umred	4	1	3	1	3	0	3	0	0	0	0	0	0
52 Pachora	4	3	1	1	1	0	1	0	0	0	0	0	0
53 UChalisgaon	4	3	1	1	1	0	1	0	0	0	0	0	0
54 Wadi	4	0	4	0	4	0	4	0	0	0	0	0	0
55 Kamptee	5	1	4	2	4	0	4	0	0	0	0	0	0
56 Bhandara	4	3	1	1	1	0	1	0	0	0	0	0	0
57 Amalner	3	3	0	0	0	0	0	0	0	0	0	0	0
58 Chopda	4	3	1	1	0	0	1	0	0	0	0	0	0
59 Nandurbar	5	5	0	0	0	0	0	0	0	0	0	0	0
60 Shahade	4	2	2	1	1	0	1	0	0	1	0	0	1
61 Gadchiroli	4	1	3	0	3	0	3	0	0	0	0	0	0
62 Ahmadnagar	8	7	1	1	1	0	1	0	0	0	0	0	0
63 Chandrapur	7	5	2	1	2	0	2	0	0	0	0	0	0
64 Ballarpur	4	1	3	1	3	0	3	0	0	0	0	0	0
65 Hinganghat	6	2	4	1	4	0	4	0	0	0	0	0	0
66 Wardha	6	4	2	0	1	0	1	0	0	1	0	0	1

Maharashtra State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar Maltodextrin NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- Others- NC	Total NC with Safety issues	
67 Shrirampur	6	6	0	0	0	0	0	0	0	0	0	0
68 Kopergaon	5	4	1	1	0	0	1	0	0	0	0	0
69 Sangamner	6	6	0	0	0	0	0	0	0	0	0	0
70 Wani	4	3	1	0	1	0	1	0	0	0	0	0
71 Yavatmal	8	6	2	0	2	0	2	0	0	0	0	0
72 Wadgaon Kolhati	4	3	1	1	0	0	1	0	0	0	0	0
73 Sillod	4	1	3	2	2	0	3	0	0	0	0	0
74 Pusad	4	0	4	1	4	0	4	0	0	0	0	0
75 Washim	4	2	2	0	2	0	2	0	0	0	0	0
76 Karanja	5	4	1	1	1	0	1	0	0	0	0	0
77 Amravati	8	5	3	1	3	0	3	0	0	0	0	0
78 Aurangabad	11	10	1	1	1	0	1	0	0	0	0	0
79 Bid	9	3	6	5	5	0	5	1	0	0	0	1
80 Achalpur	5	2	3	1	3	0	3	0	0	0	0	0
81 Anjangaon	4	1	3	2	2	0	3	0	0	0	0	0
82 Ambejogai	4	2	2	2	2	0	2	0	0	0	0	0
83 Parli	4	4	0	0	0	0	0	0	0	0	0	0
84 Akot	6	2	4	0	4	0	4	0	0	0	0	0
85 Akola	4	3	1	1	0	0	1	0	0	0	0	0
86 Osmanabad	5	4	1	0	1	0	1	0	0	0	0	0

Maharashtra State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues		
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides-NC		Others-NC	
87 Shegaon	4	0	4	0	4	0	0	0	0	4	0	0	0	0
88 Khamgaon	4	1	3	1	3	0	0	0	0	3	0	0	0	0
89 Latur	6	3	3	2	1	0	1	0	0	3	0	0	0	0
90 Malkapur	4	2	2	0	2	0	0	0	0	2	0	0	0	0
91 Buldana	4	1	3	2	2	0	0	0	0	3	0	0	0	0
92 Udgir	5	5	0	0	0	0	0	0	0	0	0	0	0	0
93 Chikhli	4	3	1	0	1	0	0	0	0	1	0	0	0	0
94 Deglur	4	4	0	0	0	0	0	0	0	0	0	0	0	0
95 Nanded Waghala	8	6	2	1	1	0	0	0	0	1	0	1	0	1
96 Basmath	4	3	1	0	1	0	0	0	0	1	0	0	0	0
97 Parbhani	6	5	1	1	1	0	0	0	0	1	0	0	0	0
98 Hingoli	4	3	1	1	1	0	0	0	0	1	0	0	0	0
99 Jalna	6	4	2	2	2	0	0	0	0	2	0	0	0	0

Manipur State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
2721756	79.85 %	55603	75	2

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
11 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	119	Milk production [^]	79 tons per annum
Feed manufacturers	3	Co-operative societies [@]	0
Veterinary hospitals [@]	56	Dairy processing units ^{\$}	1

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](#)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	12	4	33.3	8	66.7	--
(a) Compliant	6	0	0.0	6	75.0	50.0
(b) Non-Compliant (NC)	6	4	100.0	2	25.0	50.0
(i) NC with quality issues	6	4	100.0	2	25.0	50.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	12	4	100.0	8	100.0	100.0

Manipur State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	6	4	100.0	2	25.0	50.0
NC for fat	0	0	0.0	0	0.0	0.0
NC for SNF	6	4	100.0	2	25.0	50.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Manipur State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla -NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC Safety issues
	MANIPUR	12	6	6	0	6	0	0	0	6	0	0	0	0
1	Imphal (MCI + OG) (Minor part)	6	2	4	0	4	0	0	0	4	0	0	0	0
2	Imphal (MCI + OG) (Major part)	6	4	2	0	2	0	0	2	0	0	0	0	0

Meghalaya State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
2964007	75.48 %	71318	83	3

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
39 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	357	Milk production [^]	84 tons per annum
Feed manufacturers	2	Co-operative societies [@]	97
Veterinary hospitals [@]	4	Dairy processing units ^{\$}	1

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf,17_Eng.pdf

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	18	7	38.9	11	61.1	--
(a) Compliant	9	2	28.6	7	63.6	50.0
(b) Non-Compliant (NC)	9	5	71.4	4	36.4	50.0
(i) NC with quality issues	9	5	71.4	4	36.4	50.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	18	7	100.0	11	100.0	100.0

Meghalaya State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	9	5	71.4	4	36.4	50.0
NC for fat	3	0	0.0	3	27.3	16.7
NC for SNF	8	5	71.4	3	27.3	44.4
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Meghalaya State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	MEGHALAYA	18	9	9	3	8	0	0	9	0	0	0	0	0
1	Tura	6	3	3	1	2	0	0	3	0	0	0	0	0
2	Shillong	6	1	5	2	5	0	0	5	0	0	0	0	0
3	Mawlai	6	5	1	0	1	0	0	1	0	0	0	0	0

Mizoram State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1091014	91.58 %	114524	62	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
27 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	18,000	Milk production [^]	84 tons per annum
Feed manufacturers	1	Co-operative societies [@]	97
Veterinary hospitals [@]	5	Dairy processing units ^{\$}	1

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	6	2	33.3	4	66.7	--
(a) Compliant	5	2	100.0	3	75.0	83.3
(b) Non-Compliant (NC)	1	0	0.0	1	25.0	16.7
(i) NC with quality issues	0	0	0.0	0	0.0	0.0
(ii) NC with safety issues	1	0	0.0	1	25.0	16.7
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	5	2	100.0	3	75.0	83.3

Mizoram State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	0	0	0.0	0	0.0	0.0
NC for fat	0	0	0.0	0.0	0.0	0.0
NC for SNF	0	0	0.0	0.0	0.0	0.0
NC for Maltodextrin	0	0	0.0	0.0	0.0	0.0
NC for Sugar	0	0	0.0	0.0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	1	0	0.0	1	25.0	16.7
Aflatoxin M1	1	0	0.0	1	25.0	16.7
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Mizoram State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues						
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues		
1	MIZORAM	6	5	1	0	0	0	0	0	0	1	0	0	0	0	1
	Aizawl	6	5	1	0	0	0	0	0	0	1	0	0	0	0	1

Nagaland State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1980602	80.11 %	83621	91	2

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
12 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	99,000	Milk production [^]	79 tons per annum
Feed manufacturers	1	Co-operative societies [@]	52
Veterinary hospitals [@]	11	Dairy processing units ^{\$}	2

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	12	6	50.0	6	50.0	--
(a) Compliant	2	1	16.7	1	16.7	16.7
(b) Non-Compliant (NC)	10	5	83.3	5	83.3	83.3
(i) NC with quality issues	6	3	50.0	3	50.0	50.0
(ii) NC with safety issues	3	2	33.3	1	16.7	25.0
(iii) NC with both quality and safety issues	1	0	0.0	1	16.7	8.3
Total samples without safety issues	8	4	66.7	4	66.7	66.7

Nagaland State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	6	3	50.0	3	50.0	50.0
NC for fat	5	1	16.7	4	66.7	41.7
NC for SNF	5	3	50.0	2	33.3	41.7
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	4	2	33.3	2	33.3	33.3
Aflatoxin M1	4	2	33.3	2	33.3	33.3
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Nagaland State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	
	NAGALAND	12	2	10	5	5	0	0	7	4	0	0	0	4
1	Kohima	6	0	6	2	2	0	0	3	4	0	0	0	4
2	Dimapur	6	2	4	3	3	0	0	4	0	0	0	0	0

Nct Of Delhi State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
16753235	86.34 %	217548	35	36

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
18 %	71.7 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	14,200	Milk production [^]	279 tons per annum
Feed manufacturers	13	Co-operative societies [@]	-
Veterinary hospitals [@]	50	Dairy processing units ^{\$}	14

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	262	194	74.0	68	26.0	--
(a) Compliant	142	118	60.8	24	35.3	54.2
(b) Non-Compliant (NC)	120	76	39.2	44	64.7	45.8
(i) NC with quality issues	78	37	19.1	41	60.3	29.8
(ii) NC with safety issues	33	31	16.0	2	2.9	12.6
(iii) NC with both quality and safety issues	9	8	4.1	1	1.5	3.4
Total samples without safety issues	220	155	79.9	65	95.6	84.0

Nct Of Delhi State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	78	37	19.1	41	60.3	29.8
NC for fat	50	24	12.4	26	38.2	19.1
NC for SNF	51	25	12.9	26	38.2	19.5
NC for Maltodextrin	2	2	1.0	0	0.0	0.8
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	42	39	20.1	3	4.4	16.0
Aflatoxin M1	38	36	18.6	2	2.9	14.5
Antibiotics	4	3	1.5	1	1.5	1.5
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Nct Of Delhi State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	NCT OF DELHI	262	142	120	50	51	0	2	87	38	4	0	0	42
1	Chilla Saroda Bangar	4	1	3	2	3	0	0	3	0	0	0	0	0
2	dallu pura	5	3	2	2	1	0	0	2	0	0	0	0	0
3	Daryaganj	6	4	2	1	0	0	0	1	1	0	0	0	1
4	DMC	82	50	32	10	13	0	2	24	8	0	0	0	8
5	NDMC	6	4	2	0	0	0	0	0	2	0	0	0	2
6	Paharganj	6	3	3	0	1	0	0	1	2	0	0	0	2
7	Shahdara	6	1	5	2	3	0	0	4	1	1	0	0	2
8	South east delhi	6	4	2	1	0	0	0	1	1	0	0	0	1
9	Gharoli	4	0	4	3	1	0	0	4	0	0	0	0	0
10	Jait Pur	4	4	0	0	0	0	0	0	0	0	0	0	0
11	Mithe Pur	4	4	0	0	0	0	0	0	0	0	0	0	0
12	Taj Pul	3	3	0	0	0	0	0	0	0	0	0	0	0
13	Deoli	4	4	0	0	0	0	0	0	0	0	0	0	0
14	Roshan Pura alias Dichaon Khurd	5	1	4	3	2	0	0	3	1	0	0	0	1
15	Kapas Hera	3	3	0	0	0	0	0	0	0	0	0	0	0
16	Mustafabad	5	2	3	2	2	0	0	3	0	0	0	0	0
17	Karawal Nagar	6	2	4	2	2	0	0	4	1	0	0	0	1
18	Gokal Pur	5	3	2	1	1	0	0	2	0	0	0	0	0
19	Mandoli	5	3	2	0	2	0	0	2	0	0	0	0	0

Nct Of Delhi State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
20	Khajoori Khas	4	0	4	2	2	0	0	4	1	0	0	0	1
21	Ziauddin Pur	4	1	3	3	0	0	0	3	1	0	0	0	1
22	Jaffrabad	4	2	2	1	0	0	0	1	1	0	0	0	1
23	Burari	5	2	3	1	1	0	0	2	1	0	0	0	1
24	Mukand Pur	4	3	1	1	1	0	0	1	0	0	0	0	0
25	Sadat Pur Gujran	4	1	3	1	3	0	0	3	0	0	0	0	0
26	Kirari Suleman Nagar	6	3	3	1	2	0	0	2	3	0	0	0	3
27	Sultan Pur Majra	5	2	3	2	3	0	0	3	0	0	0	0	0
28	Nithari	4	2	2	0	0	0	0	0	2	0	0	0	2
29	Bawana	4	2	2	0	0	0	0	0	1	1	0	0	2
30	Pooth Kalan	4	2	2	1	0	0	0	1	1	0	0	0	1
31	Begum Pur	4	3	1	0	0	0	0	0	1	0	0	0	1
32	Sahibabad Daulat Pur	4	3	1	1	0	0	0	1	0	1	0	0	1
33	Bhalswa Jahangir Pur	5	2	3	2	2	0	0	3	0	0	0	0	0
34	Hastsal	5	3	2	0	0	0	0	0	2	0	0	0	2
35	Bapraula	4	2	2	1	1	0	0	1	2	0	0	0	2
36	Mundka	4	0	4	0	2	0	0	2	2	0	0	0	2
37	Nangloi Jat	6	3	3	3	1	0	0	3	0	0	0	0	0
38	Delhi Cantonment	5	3	2	0	1	0	0	1	0	1	0	0	1
39	Pul Pehlad	4	2	2	0	1	0	0	1	1	0	0	0	1
40	Molar Band	4	2	2	1	0	0	0	1	2	0	0	0	2

Odisha State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
41947358	73.45 %	65650	128	26

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
44 %	65.7 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count^	37,090	Milk production^	2003 tons per annum
Feed manufacturers	2	Co-operative societies@	5579
Veterinary hospitals@	541	Dairy processing units\$	4

Ref: ^<http://www.animalhusbandry.com>,

@ dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

\$<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	192	106	55.2	86	44.8	--
(a) Compliant	87	48	45.3	39	45.3	45.3
(b) Non-Compliant (NC)	105	58	54.7	47	54.7	54.7
(i) NC with quality issues	82	45	42.5	37	43.0	42.7
(ii) NC with safety issues	17	9	8.5	8	9.3	8.9
(iii) NC with both quality and safety issues	6	4	3.8	2	2.3	3.1
Total samples without safety issues	169	93	87.7	76	88.4	88.0

Odisha State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	81	44	41.5	37	43.0	42.2
NC for fat	15	0	0.0	15	17.4	7.8
NC for SNF	85	49	46.2	36	41.9	44.3
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	1	0	0.0	1	1.2	0.5

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	23	13	12.3	10	11.6	12.0
Aflatoxin M1	20	10	9.4	10	11.6	10.4
Antibiotics	3	3	2.8	0	0.0	1.6
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters

Odisha State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				Total NC with Safety issues	
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC		Total NC with Safety issues
	ODISHA	192	87	105	15	85	1	0	88	20	3	0	0	23
1	Paradip	4	1	3	1	2	0	0	2	2	0	0	0	2
2	PURI	6	3	3	2	2	1	0	2	1	0	0	0	1
3	Bhubaneswar	8	3	5	3	4	0	0	4	1	0	0	0	1
4	Jatani	4	4	0	0	0	0	0	0	0	0	0	0	0
5	Cuttack	8	4	4	0	1	0	0	1	3	0	0	0	3
6	Choudwar	4	2	2	0	2	0	0	2	0	0	0	0	0
7	Byasanagar	4	4	0	0	0	0	0	0	0	0	0	0	0
8	Bhadrak	4	3	1	0	1	0	0	1	0	0	0	0	0
9	Bargarh	5	3	2	0	2	0	0	2	0	1	0	0	1
10	Baleshwar	5	1	4	0	4	0	0	4	1	0	0	0	1
11	Baripada	5	2	3	1	2	0	0	2	1	0	0	0	1
12	Nayagarh	4	2	2	0	2	0	0	2	0	0	0	0	0
13	Itamati	2	1	1	0	1	0	0	1	0	0	0	0	0
14	Dhenkanal	4	3	1	0	1	0	0	1	0	0	0	0	0
15	Talcher	3	1	2	0	2	0	0	2	0	0	0	0	0
16	Anugul	3	0	3	0	3	0	0	3	0	0	0	0	0
17	Kendujhar	4	0	4	0	4	0	0	4	0	0	0	0	0
18	Barbil	4	2	2	0	2	0	0	2	0	0	0	0	0
19	Raurkela	5	1	4	1	2	0	0	2	2	0	0	0	2
20	Raurkela	7	5	2	0	1	0	0	1	1	0	0	0	1

Odisha State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
21	Rajagangapur	4	4	0	0	0	0	0	0	0	0	0	0	0
22	Brajarajnagar	4	3	1	0	1	0	0	0	1	0	0	0	0
23	Jharsuguda	4	2	2	0	2	0	0	0	2	0	0	0	0
24	Sambalpur	5	3	2	0	2	0	0	0	2	0	0	0	0
25	Balangir	4	1	3	1	3	0	0	0	3	0	0	0	0
26	Binika	3	2	1	0	1	0	0	0	1	0	0	0	0
27	Deogarh	5	4	1	0	1	0	0	0	1	0	0	0	0
28	Sonapur	3	1	2	1	2	0	0	0	2	0	0	0	0
29	BRAHMAPUR	6	3	3	1	2	0	0	0	3	0	0	0	0
30	Boudhgarh	6	1	5	0	5	0	0	0	5	0	0	0	0
31	Phulabani	3	0	3	1	3	0	0	0	3	0	0	0	0
32	Baliguda	3	0	3	0	3	0	0	0	3	0	0	0	0
33	Kantamal	3	1	2	0	2	0	0	0	2	0	0	0	0
34	Khariar Road	3	3	0	0	0	0	0	0	0	0	0	0	0
35	Khariar	3	0	3	0	3	0	0	0	3	0	0	0	0
36	Bhawanipatna	4	2	2	0	2	0	0	0	2	0	0	0	0
37	Nabarangapur	6	4	2	0	1	0	0	0	1	2	0	0	2
38	Jeypur	4	2	2	0	2	0	0	0	2	1	1	0	2
39	Malkangiri	6	2	4	1	2	0	0	0	2	2	0	0	2
40	Rayagada	4	0	4	1	3	0	0	0	4	0	0	0	0
41	Sunabeda.	4	2	2	0	0	0	0	0	0	2	0	0	2
42	Paralakhemundi	6	1	5	1	4	0	0	0	5	0	0	0	0
43	Kendrapara	6	1	5	0	3	0	0	0	3	1	1	0	2

Puducherry State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1244464	86.55 %	160421	107	4

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,

& Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
10 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	37,090	Milk production [^]	48 tons per annum
Feed manufacturers	2	Co-operative societies@	5579
Veterinary hospitals@	541	Dairy processing units\$	4

Ref: [^]<http://www.animalhusbandry.com>,

@ dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

\$<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	21	14	66.7	7	33.3	--
(a) Compliant	14	10	71.4	4	57.1	66.7
(b) Non-Compliant (NC)	7	4	28.6	3	42.9	33.3
(i) NC with quality issues	7	4	28.6	3	42.9	33.3
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	21	14	100.0	7	100.0	100.0

Puducherry State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	5	2	14.3	3	42.9	23.8
NC for fat	2	2	14.3	0	0.0	9.5
NC for SNF	5	2	14.3	3	42.9	23.8
NC for Maltodextrin	1	1	7.1	0	0.0	4.8
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters

Puducherry State fact sheet



Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	
	PUDUCHERRY	21	14	7	2	5	0	1	7	0	0	0	0	0
1	Puducherry	6	5	1	0	1	0	1	1	0	0	0	0	0
2	Ozhukarai	6	2	4	2	2	0	0	4	0	0	0	0	0
3	Karaikal	4	3	1	0	1	0	0	1	0	0	0	0	0
4	Yanam	4	3	1	0	1	0	0	1	0	0	0	0	0
5	Kantamal	1	1	0	0	0	0	0	0	0	0	0	0	0

Punjab State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
27704236	76.68 %	119640	1075	40

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, &Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
21 %	70.3 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	41,010	Milk production [^]	11282 tons per annum
Feed manufacturers	15	Co-operative societies [@]	7954
Veterinary hospitals [@]	1389	Dairy processing units ^{\$}	37

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	203	41	20.2	162	79.8	--
(a) Compliant	127	26	63.4	101	62.3	62.6
(b) Non-Compliant (NC)	76	15	36.6	61	37.7	37.4
(i) NC with quality issues	47	2	4.9	45	27.8	23.2
(ii) NC with safety issues	27	12	29.3	15	9.3	13.3
(iii) NC with both quality and safety issues	2	1	2.4	1	0.6	1.0
Total samples without safety issues	174	28	68.3	146	90.1	85.7

Punjab State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	47	2	4.9	45	27.8	23.2
NC for fat	15	1	2.4	14	8.6	7.4
NC for SNF	42	2	4.9	40	24.7	20.7
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	29	13	31.7	16	9.9	14.3
Aflatoxin M1	29	13	31.7	16	9.9	14.3
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Punjab State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
	PUNJAB	203	127	76	15	42	0	0	49	29	0	0	0	29
1	Fazilka	4	1	3	1	1	0	0	2	1	0	0	0	1
2	S.B.S Nager(Nawanshahr)	5	4	1	1	0	0	1	1	0	0	0	0	0
3	Tarn Taran	4	3	1	0	1	0	1	1	0	0	0	0	0
4	Amritsar	10	6	4	0	4	0	0	4	0	0	0	0	0
5	Gurdaspur	4	4	0	0	0	0	0	0	0	0	0	0	0
6	Batala	5	4	1	0	1	0	0	1	0	0	0	0	0
7	Pathankot	5	4	1	0	1	0	0	1	0	0	0	0	0
8	Kapurthala	4	3	1	1	1	0	0	1	0	0	0	0	0
9	Phagwara	5	3	2	0	2	0	0	2	0	0	0	0	0
10	Hoshiarpur	5	3	2	1	1	0	0	2	0	0	0	0	0
11	Jalandhar	8	8	0	0	0	0	0	0	0	0	0	0	0
12	Ludhiana	15	15	0	0	0	0	0	0	0	0	0	0	0
13	Khanna	5	4	1	0	0	0	0	0	1	0	0	0	1
14	Jagraon	4	3	1	0	0	0	0	0	1	0	0	0	1
15	Moga	5	4	1	0	1	0	0	1	0	0	0	0	0
16	Firozpur	6	5	1	0	1	0	0	1	0	0	0	0	0
17	Firozpur Cantt	3	2	1	0	0	0	0	0	1	0	0	0	1
18	Abohar	5	1	4	0	4	0	0	4	0	0	0	0	0
19	Malout	4	1	3	0	3	0	0	3	0	0	0	0	0

Punjab State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
20	Muktsar	5	3	2	0	2	0	0	0	2	0	0	0	0
21	Kot Kapura	4	1	3	0	0	0	0	0	0	3	0	0	3
22	Bathinda	6	0	6	1	0	0	0	1	1	5	0	0	5
23	Rampura Phul	4	2	2	1	1	0	0	1	1	1	0	0	1
24	Mansa	4	1	3	1	1	0	0	2	1	1	0	0	1
25	Faridkot	4	2	2	0	0	0	0	0	2	2	0	0	2
26	Barnala	5	4	1	0	0	0	0	0	1	1	0	0	1
27	Sunam Udham Singh Wala	4	3	1	1	0	0	0	1	0	0	0	0	0
28	Sangrur	4	2	2	0	0	0	0	0	2	0	0	0	2
29	Dhuri	4	3	1	1	1	0	0	1	0	0	0	0	0
30	Patiala	7	4	3	0	2	0	0	2	2	2	0	0	2
31	Rajpura	3	1	2	0	2	0	0	2	0	0	0	0	0
32	Nabha	4	3	1	0	1	0	0	1	0	0	0	0	0
33	Malerkotla	5	2	3	0	1	0	0	1	2	0	0	0	2
34	Samana	4	1	3	0	2	0	0	2	1	0	0	0	1
35	Gobindgarh	4	3	1	0	0	0	0	0	1	0	0	0	1
36	Sirhind Fatehgarh Sahib	4	4	0	0	0	0	0	0	0	0	0	0	0
37	Rupnagar	4	3	1	1	0	0	0	1	0	0	0	0	0
38	Kharar	4	2	2	0	1	0	0	1	1	0	0	0	1
39	SAS Nagar (Mohali)	6	4	2	1	2	0	0	2	0	0	0	0	0
40	Zirakpur	4	0	4	3	3	0	0	4	1	0	0	0	1
41	Naya Gaon	4	1	3	1	1	0	0	1	2	0	0	0	2

Rajasthan State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
68621012	67.06 %	83977	785	55

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
41 %	67.66 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	13403	Milk production [^]	20850 tons per annum
Feed manufacturers	1	Co-operative societies [@]	15159
Veterinary hospitals [@]	2527	Dairy processing units ^{\$}	23

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf,17_Eng.pdf

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	314	76	24.2	238	75.8	--
(a) Compliant	173	58	76.3	115	48.3	55.1
(b) Non-Compliant (NC)	141	18	23.7	123	51.7	44.9
(i) NC with quality issues	123	10	13.2	113	47.5	39.2
(ii) NC with safety issues	11	7	9.2	4	1.7	3.5
(iii) NC with both quality and safety issues	7	1	1.3	6	2.5	2.2
Total samples without safety issues	296	68	89.5	228	95.8	94.3

Rajasthan State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	123	10	13.2	113	47.5	39.2
NC for fat	79	6	7.9	73	30.7	25.2
NC for SNF	80	5	6.6	75	31.5	25.5
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	3	0	0.0	3	1.3	1.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	18	8	10.5	10	4.2	5.7
Aflatoxin M1	13	6	7.9	7	2.9	4.1
Antibiotics	4	2	2.6	2	0.8	1.3
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Rajasthan State fact sheet



Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues			
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues
	RAJASTHAN	314	173	141	79	80	3	0	130	13	4	0	18
1	Chotti Sadri	5	2	3	2	0	0	0	2	0	1	0	1
2	Prathapgarh	5	3	2	2	0	0	0	2	0	0	0	0
3	Jaipur	29	17	12	6	4	1	0	10	1	0	0	2
4	Chomu	4	1	3	1	2	1	0	3	0	0	0	0
5	Kishangarh	5	3	2	1	2	0	0	2	0	0	0	0
6	Dausa	4	0	4	3	2	1	0	4	2	0	0	2
7	Nasirabad	3	3	0	0	0	0	0	0	0	0	0	0
8	Ajmer	9	7	2	1	1	0	0	2	0	0	0	0
9	Beawar	5	5	0	0	0	0	0	0	0	0	0	0
10	Pali	6	6	0	0	0	0	0	0	0	0	0	0
11	Jodhpur	10	4	6	6	0	0	0	6	2	0	0	2
12	Balotra	4	2	2	0	2	0	0	2	0	0	0	0
13	Barmer	4	2	2	0	1	0	0	1	1	0	0	1
14	Jaisalmer	4	1	3	1	1	0	0	2	1	0	0	1
15	Jalor	4	1	3	2	3	0	0	3	0	0	0	0
16	Abu Road	4	1	3	1	3	0	0	3	0	0	0	0
17	Udaipur	6	3	3	1	2	0	0	3	0	1	0	1
18	Rajsamand	4	1	3	0	3	0	0	3	0	0	0	0

Rajasthan State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues		
19	Bhilwara	8	3	5	3	2	0	0	4	0	1	0	0	1
20	Nimbahera	4	2	2	0	2	0	0	2	0	0	0	0	0
21	Chittaurgarh	5	3	2	0	2	0	0	2	0	0	0	0	0
22	Banswara	5	1	4	3	3	0	0	4	0	0	0	0	0
23	Kota	9	6	3	0	3	0	0	3	0	0	0	0	0
24	Jhalawar	2	1	1	1	1	0	0	1	0	0	0	0	0
25	Baran	5	1	4	2	4	0	0	4	0	0	0	0	0
26	Bundi	5	2	3	1	2	0	0	3	0	0	0	0	0
27	Tonk	5	4	1	1	1	0	0	1	0	0	0	0	0
28	Sawai Madhopur	5	4	1	1	1	0	0	1	0	0	0	0	0
29	Hindaun	5	3	2	2	1	0	0	2	0	0	0	0	0
30	Gangapur City	5	5	0	0	0	0	0	0	0	0	0	0	0
31	Karauli	4	3	1	1	0	0	0	1	0	0	0	0	0
32	Bari	4	2	2	2	2	0	0	2	0	0	0	0	0
33	Dhaulpur	5	2	3	3	1	0	0	3	0	0	0	0	0
34	Bharatpur	6	5	1	0	1	0	0	1	0	0	0	0	0
35	Alwar	6	6	0	0	0	0	0	0	0	0	0	0	0
36	Bhiwadi	5	4	1	0	1	0	0	1	0	0	0	0	0
37	Jhunjhunun	6	3	3	2	2	0	0	3	0	0	0	0	0
38	Nawalgarh	3	3	0	0	0	0	0	0	0	0	0	0	0
39	Churu	5	2	3	3	2	0	0	3	0	0	0	0	0
40	Rajgarh	3	3	0	0	0	0	0	0	0	0	0	0	0

Rajasthan State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues	
41	Hanumangarh	5	2	3	1	1	0	0	2	1	0	0	0	1
42	Sikar	6	3	3	1	2	0	0	2	1	0	0	0	1
43	Lachhmangarh	4	0	4	3	2	0	0	4	1	0	0	0	1
44	Fatehpur	4	2	2	0	2	0	0	2	0	0	0	0	0
45	Ratangarh	4	1	3	2	3	0	0	3	0	0	0	0	0
46	Sardarshahar	4	2	2	2	1	0	0	2	0	0	0	0	0
47	Ganganagar	6	4	2	1	1	0	0	2	0	0	0	0	0
48	Suratgarh	4	2	2	1	0	0	0	1	1	0	0	0	1
49	Bikaner	8	3	5	1	4	0	0	5	1	0	0	0	1
50	Dungargarh	4	1	3	3	2	0	0	3	0	0	0	0	0
51	Sujangarh	5	2	3	3	0	0	0	3	0	0	0	0	0
52	Ladhu	4	2	2	2	0	0	0	2	0	0	0	0	0
53	Didwana	4	2	2	2	0	0	0	2	0	0	0	0	0
54	Makrana	4	2	2	1	1	0	0	2	0	0	0	0	0
55	Nagaur	5	4	1	1	0	0	0	1	0	0	0	0	0
56	Kuchaman City	4	3	1	0	1	0	0	1	0	0	0	0	0
57	Nokha	4	3	1	1	1	0	0	1	0	0	0	0	0
58	Sagwara	4	0	4	2	1	0	0	2	1	1	0	0	2
59	Dungarpur	6	5	1	0	1	0	0	1	0	0	0	0	0

Sikkim State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
607688	82.20 %	233954	228	1

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
16 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	62	Milk production [^]	54 tons per annum
Feed manufacturers	0	Co-operative societies [@]	451
Veterinary hospitals [@]	18	Dairy processing units ^{\$}	1

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	10	9	90.0	1	10.0	--
(a) Compliant	7	6	66.7	1	100.0	70.0
(b) Non-Compliant (NC)	3	3	33.3	0	0.0	30.0
(i) NC with quality issues	3	3	33.3	0	0.0	30.0
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	10	9	100.0	1	100.0	100.0

Sikkim State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	3	3	33.3	0	0.0	30.0
NC for fat	1	1	11.1	0	0.0	10.0
NC for SNF	2	2	22.2	0	0.0	20.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Sikkim State fact sheet

Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues	
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC		Total NC
1	SIKKIM	10	7	3	1	2	0	0	3	0	0	0	0	0	0
2	GANGTOK	5	4	1	0	1	0	0	1	0	0	0	0	0	0
3	NAMCHI	5	3	2	1	1	0	0	2	0	0	0	0	0	0

Tamil Nadu State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
72138958	80.33 %	137837	294	112

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,
Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
17 %	69 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	4908	Milk production [^]	7556 tons per annum
Feed manufacturers	34	Co-operative societies [@]	11283
Veterinary hospitals [@]	171	Dairy processing units ^{\$}	35

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	551	292	53.0	259	47.0	--
(a) Compliant	266	96	32.9	170	65.6	48.3
(b) Non-Compliant (NC)	285	196	67.1	89	34.4	51.7
(i) NC with quality issues	193	134	45.9	59	22.8	35.0
(ii) NC with safety issues	67	42	14.4	25	9.7	12.2
(iii) NC with both quality and safety issues	25	20	6.8	5	1.9	4.5
Total samples without safety issues	459	230	78.8	229	88.4	83.3

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Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	218	154	52.7	64	24.7	39.6
NC for fat	89	67	22.9	22	8.5	16.2
NC for SNF	146	90	30.8	56	21.6	26.5
NC for Maltodextrin	53	53	18.2	0	0.0	9.6
NC for Sugar	1	0	0.0	1	0.4	0.2

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	91	62	21.2	29	11.2	16.5
Aflatoxin M1	88	60	20.5	28	10.8	16.0
Antibiotics	3	2	0.7	1	0.4	0.5
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

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Table 4

Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues
	TAMIL NADU	551	266	285	89	146	1	53	218	88	3	0	0	92
1	Chennai	44	18	26	16	16	0	2	24	2	0	0	0	2
2	Alandur	5	3	2	0	2	0	0	2	0	0	0	0	0
3	Puzhithivakkam (Ullagaram)	4	3	1	0	0	0	0	0	1	0	0	0	1
4	Oggiyamduraiappakkam	4	1	3	1	2	0	0	3	0	1	0	0	1
5	Pallavaram	6	3	3	1	2	0	2	3	0	0	0	0	0
6	Tambaram	5	0	5	1	5	0	1	5	0	0	0	0	0
7	Pammal	4	1	3	0	1	0	3	3	0	0	0	0	0
8	Kundrathur	4	3	1	0	1	0	1	1	0	0	0	0	0
9	Maraimalainagar	4	2	2	1	1	0	0	1	1	0	0	0	1
10	Chengalpattu	4	3	1	0	1	0	0	1	0	0	0	0	0
11	Kancheepuram	5	4	1	0	0	0	1	1	0	0	0	0	0
12	Arani	4	4	0	0	0	0	0	0	0	0	0	0	0
13	Tiruvannamalai	5	4	1	0	1	0	0	1	0	0	0	0	1
14	Kallakurichi	4	2	2	0	1	0	0	1	0	0	0	0	1
15	Viluppuram	4	2	2	0	1	1	0	2	0	0	0	0	0
16	Tindivanam	4	4	0	0	0	0	0	0	0	0	0	0	0

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues			
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues
17 Nagapattinam	5	2	3	1	1	0	3	3	0	0	0	0	0
18 Mayiladuthurai	4	2	2	2	0	0	0	2	0	0	0	0	0
19 Chidambaram	4	1	3	0	1	0	3	3	0	0	0	0	0
20 Cuddalore	5	4	1	0	0	0	1	1	0	0	0	0	0
21 Panruti	4	2	2	0	1	0	1	2	0	0	0	0	0
22 Neyveli	4	1	3	1	1	0	1	3	0	0	0	0	0
23 Virudhachalam	4	1	3	0	3	0	1	3	0	0	0	0	0
24 Tiruchirappalli	8	7	1	0	1	0	1	1	0	0	0	0	0
25 Thanjavur	6	2	4	1	3	0	2	4	0	0	0	0	0
26 Kumbakonam	5	0	5	1	3	0	3	5	0	0	0	0	0
27 Mannargudi	4	2	2	0	1	0	1	2	0	0	0	0	0
28 Thiruvarur	4	3	1	0	1	0	0	1	0	0	0	0	0
29 Pattukkottai	4	4	0	0	0	0	0	0	0	0	0	0	0
30 Pudukkottai	5	3	2	0	2	0	0	2	0	0	0	0	0
31 Karaikkudi	5	3	2	2	1	0	0	2	1	0	0	0	1
32 Ramanathapuram	4	2	2	0	0	0	2	2	0	0	0	0	0
33 Devakottai	4	2	2	0	0	0	2	2	0	0	0	0	0
34 Paramakudi	4	2	2	0	0	0	1	1	1	0	0	0	1
35 Kovilpatti	4	3	1	1	0	0	0	1	0	0	0	0	0
36 Thoothukkudi	6	1	5	5	5	0	0	5	0	0	0	0	0
37 Nagercoil	6	3	3	1	3	0	0	3	0	0	0	0	0

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Sl. No.	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat SNF NC	Sugar Maltodextrin- NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues		
38	Tirunelveli	5	1	4	2	4	0	1	4	0	0	0	0	0
39	Sankarankoil	5	1	4	1	4	0	0	4	0	0	0	0	0
40	Tenkasi	4	0	4	3	3	0	2	4	0	0	0	0	0
41	Kadayanallur	4	2	2	1	2	0	0	2	0	0	0	0	0
42	Puliankudi	4	4	0	0	0	0	0	0	0	0	0	0	0
43	Rajapalayam	5	3	2	0	1	0	0	1	2	0	0	0	2
44	Srivilliputhur	4	2	2	1	0	0	0	1	1	0	0	0	1
45	Sivakasi	4	2	2	0	2	0	0	2	0	0	0	0	0
46	Thiruthangal	4	4	0	0	0	0	0	0	0	0	0	0	0
47	Virudhunagar	4	4	0	0	0	0	0	0	0	0	0	0	0
48	Aruppukkottai	4	1	3	0	0	0	1	1	3	0	0	0	3
49	Madurai	9	5	4	1	0	0	0	1	3	0	0	0	3
50	Anaiyur	4	0	4	0	1	0	0	1	3	1	0	0	3
51	Avaniapuram	4	3	1	0	0	0	0	0	1	0	0	0	1
52	Thirumangalam	4	1	3	1	2	0	0	2	1	0	0	0	1
53	Thiruparankundram	4	1	3	1	1	0	0	2	1	0	0	0	1
54	Dindigul	6	4	2	1	0	0	0	1	1	0	0	0	1
55	Palani	4	0	4	1	2	0	0	3	1	0	0	0	1
56	Theni Allinagaram	4	1	3	0	2	0	0	2	2	0	0	0	2
57	VKambam	4	1	3	0	2	0	0	2	3	0	0	0	3
58	Bodinayakanur	4	1	3	0	1	0	0	1	3	0	0	0	3

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Sl. No.	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
59	Dharapuram	4	2	2	0	1	0	0	0	1	2	0	0	0	2
60	Udumalaipettai	4	2	2	0	2	0	0	0	2	1	0	0	0	1
61	Veerapandi	4	2	2	1	1	0	0	0	1	2	0	0	0	2
62	Tiruppur	6	3	3	2	1	0	0	0	2	2	0	0	0	2
63	Velampalayam	4	2	2	0	1	0	0	0	1	1	0	0	0	1
64	Neripperichal	4	0	4	1	1	0	0	0	1	3	0	0	0	3
65	Coimbatore	10	4	6	0	0	0	0	0	0	6	0	0	0	6
66	Pollachi	4	0	4	0	0	0	0	0	0	4	0	0	0	4
67	Mettupalayam	4	0	4	2	1	0	0	0	3	2	0	0	0	2
68	S.Nallur	4	0	4	0	1	0	0	0	1	3	0	0	0	3
69	Goundampalayam	4	1	3	0	0	0	0	0	0	3	0	0	0	3
70	Kurichi	5	1	4	0	1	0	0	0	1	3	0	0	0	3
71	Kuniyamuthur	4	0	4	1	1	0	0	0	1	4	0	0	0	4
72	Valparai	4	3	1	0	0	0	0	0	0	1	0	0	0	1
73	Udhagamandalam	4	4	0	0	0	0	0	0	0	0	0	0	0	0
74	Gobichettipalayam	4	4	0	0	0	0	0	0	0	0	0	0	0	0
75	Erode	5	3	2	0	0	0	1	1	1	1	0	0	0	1
76	Kasipalayam (E)	4	2	2	0	1	0	0	0	1	2	0	0	0	2
77	Veerappanchatiram	4	1	3	1	1	0	0	0	1	3	0	0	0	3
78	Periyasemur	4	3	1	1	1	0	0	0	1	0	0	0	0	0

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Sl. No.	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat SNF NC	Sugar Maltodextrin- NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- NC	Others- NC	Total NC with Safety issues		
79	Karur	4	3	1	0	0	0	0	1	0	0	0	1	
80	Inam Karur	4	2	2	0	0	1	1	2	0	0	0	2	
81	Thanthoni	4	1	3	0	1	3	3	2	0	0	0	2	
82	Namakal	4	1	3	0	0	1	1	1	1	0	0	2	
83	Kumarapalayam	4	2	2	2	0	0	2	0	0	0	0	0	
84	Salem	8	4	4	0	0	4	4	0	0	0	0	0	
85	Tiruchengode	4	3	1	1	0	1	1	0	0	0	0	0	
86	Rasipuram	4	1	3	1	2	2	3	1	0	0	0	1	
87	Attur	4	3	1	0	0	0	0	1	0	0	0	1	
88	Edappadi	4	4	0	0	0	0	0	0	0	0	0	0	
89	Mettur	4	4	0	0	0	0	0	0	0	0	0	0	
90	Dharmapuri	4	3	1	0	1	0	1	0	0	0	0	0	
91	Krishnagiri	4	4	0	0	0	0	0	0	0	0	0	0	
92	Tirupathur	4	3	1	0	1	0	1	0	0	0	0	0	
93	Vaniyambadi	4	1	3	1	3	0	3	0	0	0	0	0	
94	Ambur	5	3	2	0	2	0	2	0	0	0	0	0	
95	Pernampattu	4	4	0	0	0	0	0	0	0	0	0	0	
96	Hosur	5	5	0	0	0	0	0	0	0	0	0	0	
97	Gudiyatham	4	3	1	1	0	0	1	0	0	0	0	0	

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No.	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				
					Fat SNF NC	Sugar Maltodextrin- NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- Others- NC	Total NC with Safety issues		
98	Vellore	5	4	1	1	0	0	1	0	0	0	0	0
99	Sathuvachari	4	2	2	2	0	0	2	0	0	0	0	0
100	Arcot	4	3	1	1	0	0	1	0	0	0	0	0
101	Ranipettai	4	1	3	0	0	3	3	0	0	0	0	0
102	Arakonam	4	2	2	0	2	0	2	0	0	0	0	0
103	Thiruvallur	4	3	1	0	1	0	1	0	0	0	0	0
104	Perambalur	4	2	2	1	2	0	2	1	0	0	0	1
105	Ariyalur	4	3	1	0	1	0	1	1	0	0	0	1
106	Ramapuram	4	0	4	0	3	0	3	2	0	0	0	2
107	Poonamallee	4	0	4	1	4	0	4	1	0	0	0	1
108	Tiruverkadu	4	0	4	3	3	0	4	0	0	0	0	0
109	Nerkunram	4	1	3	2	3	0	3	0	0	0	0	0
110	Maduravoyal	4	0	4	4	1	0	4	0	0	0	0	0
111	Ambattur	6	1	5	3	2	0	5	0	0	0	0	0
112	Avadi	6	2	4	3	0	0	4	0	0	0	0	0
113	Madavaram	5	1	4	2	3	0	4	0	0	0	0	0
114	Tiruvottiyur	6	2	4	3	2	0	3	1	0	0	0	1

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Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
35286757	66.46 %	137955	217	43

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
31 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	3845	Milk production [^]	4681 tons per annum
Feed manufacturers	8	Co-operative societies [@]	1849
Veterinary hospitals [@]	108	Dairy processing units ^{\$}	26

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	238	91	38.2	147	61.8	--
(a) Compliant	114	42	46.2	72	49.0	47.9
(b) Non-Compliant (NC)	124	49	53.8	75	51.0	52.1
(i) NC with quality issues	100	35	38.5	65	44.2	42.0
(ii) NC with safety issues	16	8	8.8	8	5.4	6.7
(iii) NC with both quality and safety issues	8	6	6.6	2	1.4	3.4
Total samples without safety issues	214	77	84.6	137	93.2	89.9

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Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	92	29	31.9	63	42.9	38.7
NC for fat	29	6	6.6	23	15.6	12.2
NC for SNF	87	35	38.5	52	35.4	36.6
NC for Maltodextrin	14	12	13.2	2	1.4	5.9
NC for Sugar	17	10	11.0	7	4.8	7.1

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	34	19	20.9	15	10.2	14.3
Aflatoxin M1	13	8	8.8	5	3.4	5.5
Antibiotics	2	1	1.1	1	0.7	0.8
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	9	5	5.5	4	2.7	3.8
Detergents	3	1	1.1	2	1.4	1.3
Hydrogen peroxide	6	3	3.3	3	2.0	2.5
Neutralizers	1	1	1.1	0	0.0	0.4
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

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Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla-NC	Antibiotics-NC	Pesticides-NC	Others-NC	
	TELANGANA	238	114	124	29	87	17	14	108	13	2	0	9	24
1	Cyberabad	4	4	0	0	0	0	0	0	0	0	0	0	0
2	HANAMKONDA MANDAL	6	3	3	1	1	0	0	2	0	0	0	1	1
3	Pantancheru	7	3	4	2	1	0	0	3	1	0	0	0	1
4	Uppal	6	4	2	0	1	1	0	1	1	0	0	0	1
5	Secunderabad	7	3	4	2	2	0	0	4	1	0	0	0	1
6	GHMC (Part 2)	8	4	4	1	2	1	0	4	1	0	0	0	1
7	Siddipet	6	2	4	1	3	0	0	4	1	0	0	0	1
8	Sangareddy	8	2	6	2	5	1	1	5	0	1	0	1	2
9	Zahirabad	3	2	1	0	1	0	0	1	0	0	0	0	0
10	Bhongir	4	3	1	0	1	0	0	1	0	0	0	0	0
11	Miryalaguda	5	4	1	0	0	0	0	0	1	0	0	0	1
12	Nalgonda	4	2	2	0	2	0	0	2	0	0	0	0	0
13	Kodad	7	6	1	0	0	1	0	1	0	0	0	0	0
14	Suryapet	4	2	2	1	1	1	0	2	0	0	0	0	0
15	Jangaon	6	5	1	0	0	0	0	0	0	0	0	1	1
16	Karimnagar	5	4	1	0	1	0	0	1	0	0	0	0	0
17	Ramagundam	5	2	3	0	0	1	2	3	0	0	0	0	0
18	Warangal	6	1	5	1	4	2	0	5	0	0	0	0	0
19	Sircilla	4	1	3	0	3	0	0	3	0	0	0	0	0
20	Jagtial	6	2	4	0	2	0	0	2	2	0	0	0	2

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	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla -NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
21	Koratla	6	2	4	0	3	0	1	1	3	1	0	0	0	1
22	Khammam	6	2	4	1	1	1	0	3	3	1	0	0	0	1
23	Metpalle	6	2	4	1	4	0	1	4	4	0	0	0	0	0
24	Khanapuram Haveli	6	4	2	0	0	1	0	1	1	1	0	0	0	1
25	GHMC (Part 1)	7	3	4	0	3	0	0	3	3	1	0	0	0	1
26	Gadwal	7	3	4	1	3	0	1	3	3	1	0	0	1	2
27	Mahbubnagar	6	2	4	0	3	1	1	4	4	0	1	0	0	1
28	Wanaparthi	6	2	4	0	2	3	1	4	4	0	0	0	0	0
29	Kamareddy	6	3	3	0	3	0	2	3	3	0	0	0	0	0
30	Armur	6	1	5	2	5	0	1	5	5	0	0	0	0	0
31	Nizamabad	6	3	3	1	2	0	0	3	3	0	0	0	0	0
32	Bodhan	6	5	1	0	0	0	0	0	0	0	0	0	1	1
33	Kothagudem	6	3	3	2	3	1	1	3	3	0	0	0	0	0
34	Palwancha	6	2	4	1	4	1	1	4	4	0	0	0	0	0
35	Bhadrachalam	6	1	5	2	5	1	1	5	5	0	0	0	0	0
36	Adilabad	4	3	1	1	1	0	0	1	1	0	0	0	0	0
37	Nirmal	4	1	3	1	1	0	0	1	1	0	0	0	3	3
38	Mancherial	5	2	3	1	3	0	0	3	3	0	0	0	0	0
39	Mandamarri	5	2	3	1	3	0	0	3	3	0	0	0	1	1
40	Bellampalle	4	1	3	2	3	0	0	3	3	0	0	0	0	0
41	Kagaznagar	4	3	1	1	1	0	0	1	1	0	0	0	0	0
42	Vicarabad	5	2	3	0	3	0	0	3	3	0	0	0	0	0
43	Tandur	4	3	1	0	1	0	0	1	1	0	0	0	0	0

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Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
1244464	86.55 %	160421	107	4

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>,

& Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
10 %	NA

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	37,090	Milk production [^]	48 tons per annum
Feed manufacturers	2	Co-operative societies [@]	5579
Veterinary hospitals [@]	541	Dairy processing units ^{\$}	4

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	21	14	66.7	7	33.3	--
(a) Compliant	14	10	71.4	4	57.1	66.7
(b) Non-Compliant (NC)	7	4	28.6	3	42.9	33.3
(i) NC with quality issues	7	4	28.6	3	42.9	33.3
(ii) NC with safety issues	0	0	0.0	0	0.0	0.0
(iii) NC with both quality and safety issues	0	0	0.0	0	0.0	0.0
Total samples without safety issues	21	14	100.0	7	100.0	100.0

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Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	5	2	14.3	3	42.9	23.8
NC for fat	2	2	14.3	0	0.0	9.5
NC for SNF	5	2	14.3	3	42.9	23.8
NC for Maltodextrin	1	1	7.1	0	0.0	4.8
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	0	0	0.0	0	0.0	0.0
Aflatoxin M1	0	0	0.0	0	0.0	0.0
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters

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Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	
	PUDUCHERRY	21	14	7	2	5	0	1	7	0	0	0	0	0
1	Puducherry	6	5	1	0	1	0	1	1	0	0	0	0	0
2	Ozhukarai	6	2	4	2	2	0	0	4	0	0	0	0	0
3	Karaikal	4	3	1	0	1	0	0	1	0	0	0	0	0
4	Yanam	4	3	1	0	1	0	0	1	0	0	0	0	0
5	Kantamal	1	1	0	0	0	0	0	0	0	0	0	0	0

Uttar Pradesh State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
199581477	69.72 %	46253	348	126

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
43 %	64.4 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	24,501	Milk production [^]	27770 tons per annum
Feed manufacturers	17	Co-operative societies [@]	26149
Veterinary hospitals [@]	2208	Dairy processing units ^{\$}	105

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1 : Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	729	182	25.0	547	75.0	--
(a) Compliant	380	123	67.6	257	47.0	52.1
(b) Non-Compliant (NC)	349	59	32.4	290	53.0	47.9
(i) NC with quality issues	314	39	21.4	275	50.3	43.1
(ii) NC with safety issues	29	17	9.3	12	2.2	4.0
(iii) NC with both quality and safety issues	6	3	1.6	3	0.5	0.8
Total samples without safety issues	694	162	89.0	532	97.3	95.2

Uttar Pradesh State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	312	37	20.3	275	50.3	42.8
NC for fat	202	33	18.1	169	30.9	27.7
NC for SNF	224	13	7.1	211	38.6	30.7
NC for Maltodextrin	8	5	2.7	3	0.5	1.1
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	39	24	13.2	15	2.7	5.3
Aflatoxin M1	27	13	7.1	14	2.6	3.7
Antibiotics	8	7	3.8	1	0.2	1.1
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Uttar Pradesh State fact sheet



Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues		
	UTTAR PRADESH	729	380	349	202	224	0	8	320	27	8	0	0	35
1	Agra (CB)	4	3	1	0	1	0	0	1	0	0	0	0	0
2	Agra (M Corp.)	15	6	9	2	8	0	0	8	1	1	0	0	2
3	Amethi	4	1	3	1	3	0	0	3	0	0	0	0	0
4	Aonla	4	1	3	0	3	0	1	3	0	0	0	0	0
5	Baghpat	4	2	2	0	1	0	1	2	0	0	0	0	0
6	Baheri	4	0	4	4	2	0	1	4	0	0	0	0	0
7	Ballia	5	2	3	2	3	0	0	3	0	0	0	0	0
8	Baraut	5	3	2	0	2	0	0	2	0	0	0	0	0
9	Bijnor	4	2	2	0	1	0	0	1	1	0	0	0	1
10	Budaun	5	4	1	0	1	0	0	1	0	0	0	0	0
11	Budhana	4	0	4	2	0	0	1	2	2	0	0	0	2
12	Chandausi	5	3	2	0	2	0	0	2	0	0	0	0	0
13	Chandpur	4	4	0	0	0	0	0	0	0	0	0	0	0
14	Deoband	4	3	1	0	1	0	0	1	0	0	0	0	0
15	Dhampur	4	1	3	2	3	0	0	3	0	0	0	0	0
16	Gajraula	4	3	1	1	0	0	0	1	0	0	0	0	0
17	Gangoh	4	0	4	4	2	0	0	4	0	0	0	0	0

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar Maltodextrin- NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- Others- NC	Total NC with Safety issues		
18 Gorakhpur	8	3	5	3	4	0	5	0	0	0	0	0	0
19 Hapur	10	7	3	1	2	0	3	0	0	0	0	0	0
20 Hasanpur	4	2	2	2	0	0	2	0	0	0	0	0	0
21 Hathras	5	5	0	0	0	0	0	0	0	0	0	0	0
22 jahangirabad	4	0	4	3	3	0	4	0	0	0	0	0	0
23 Kairana	4	0	4	1	2	0	3	1	0	0	0	0	1
24 Kannauj	5	4	1	1	0	0	1	0	0	0	0	0	0
25 Kanpur (CB)	5	4	1	1	0	0	1	0	0	0	0	0	0
26 Kanpur (M Corp. + OG)	26	16	10	4	6	0	9	0	1	0	0	0	1
27 Kanpur Dehat	6	6	0	0	0	0	0	0	0	0	0	0	0
28 Kasganj	5	2	3	1	2	0	3	1	0	0	0	0	1
29 KAUSHAMBI	4	0	4	1	4	0	4	0	0	0	0	0	0
30 Khatauli	4	3	1	0	0	0	0	1	0	0	0	0	1
31 khoda	5	5	0	0	0	0	0	0	0	0	0	0	0
32 Kiratpur	4	3	1	1	1	0	1	0	0	0	0	0	0
33 Kushinagar	4	1	3	3	2	0	3	0	0	0	0	0	0
34 Lucknow (CB)	4	3	1	1	1	0	1	0	0	0	0	0	0
35 Lucknow (M Corp.)	5	4	1	0	0	0	0	1	0	0	0	0	1
36 Mau	6	1	5	2	4	0	5	0	0	0	0	0	0
37 Meerut (CB)	5	2	3	1	2	0	2	0	2	0	0	0	2
38 Meerut (M Corp.)	11	6	5	0	4	0	4	0	1	0	0	0	1

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar Maltodextrin- NC	Total NC with Quality issues	Afla - NC	Antibiotics- NC	Pesticides- Others- NC	Total NC with Safety issues		
39 Moradabad	8	4	4	1	3	0	0	4	0	0	0	0	0
40 Muzaffarnagar	6	4	2	2	1	0	0	2	0	0	0	0	0
41 Nagibabad	4	2	2	2	2	0	0	2	0	0	0	0	0
42 Nagina	4	2	2	1	1	0	0	1	1	0	0	0	1
43 Rampur	6	4	2	0	2	0	0	2	0	0	0	0	0
44 Rath	3	1	2	2	0	0	0	2	0	0	0	0	0
45 Rawat Ganj	4	2	2	1	2	0	0	2	0	0	0	0	0
46 Sahaswan	4	1	3	2	1	0	0	2	1	0	0	0	1
47 Sambhal	6	2	4	3	3	0	0	4	0	0	0	0	0
48 Sant Kabir Nagar	4	2	2	2	1	0	0	2	0	0	0	0	0
49 Seohara	4	3	1	0	1	0	0	1	0	0	0	0	0
50 Shamil	4	2	2	2	2	0	0	2	1	0	0	0	1
51 Shamli	5	3	2	1	1	0	0	2	0	0	0	0	0
52 Sherkot	4	2	2	1	2	0	0	2	0	0	0	0	0
53 Shrivasti	4	0	4	2	3	0	0	4	0	0	0	0	0
54 Siddharth Nagar	6	3	3	3	3	0	0	3	0	0	0	0	0
55 sikindar pur	1	0	1	0	0	0	0	0	0	1	0	0	1
56 Ujhani	4	2	2	2	1	0	0	2	0	0	0	0	0
57 Fatehpur	4	1	3	3	3	0	0	3	0	0	0	0	0
58 Ghaziabad	15	13	2	2	1	0	0	2	0	0	0	0	0
59 Loni	8	4	4	3	0	0	0	3	1	0	0	0	1

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
				Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues		
60 Muradnagar	3	0	3	1	3	0	1	3	0	0	0	0	0
61 Pilkhuwa	5	3	2	1	1	0	0	1	0	1	0	0	1
62 Modinagar	5	3	2	1	1	0	0	2	0	0	0	0	0
63 Mawana	4	3	1	0	1	0	0	1	0	0	0	0	0
64 Sardhana	4	3	1	0	1	0	0	1	0	0	0	0	0
65 Dadri	4	1	3	1	2	0	0	2	0	1	0	0	1
66 Sikandrabad	4	3	1	0	1	0	0	1	0	0	0	0	0
67 Gulaothi	4	2	2	1	2	0	0	2	0	0	0	0	0
68 Bulandshahr	6	3	3	2	3	0	0	3	0	0	0	0	0
69 Khurja	5	4	1	0	1	0	0	1	0	0	0	0	0
70 Aligarh	9	7	2	0	2	0	0	2	0	0	0	0	0
71 Atrauli	4	3	1	1	0	0	0	1	0	0	0	0	0
72 Mathura	6	3	3	2	1	0	0	2	2	0	0	0	2
73 Vrindavan	4	1	3	0	1	0	0	1	2	0	0	0	2
74 Kosi Kalan	4	3	1	1	1	0	0	1	0	0	0	0	0
75 Mainpuri	5	5	0	0	0	0	0	0	0	0	0	0	0
76 Etawah	6	4	2	0	1	0	0	1	1	0	0	0	1
77 Auraiya	4	4	0	0	0	0	0	0	0	0	0	0	0
78 Firozabad	8	5	3	3	3	0	0	3	0	0	0	0	0
79 Shikohabad	5	3	2	0	2	0	0	2	0	0	0	0	0
80 Tundla	4	2	2	1	2	0	0	2	0	0	0	0	0

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues		
81 Etah	5	2	3	2	1	0	0	3	0	0	0	0	0
82 Gangaghat	3	2	1	1	0	0	0	1	0	0	0	0	0
83 Unnao	5	2	3	3	0	0	0	3	1	0	0	0	1
84 Lucknow	22	13	9	8	4	0	0	8	1	0	0	0	1
85 Farrukhabad-cum-Fatehgarh	6	4	2	1	1	0	0	1	1	0	0	0	1
86 Chhilibramau	3	2	1	1	0	0	0	1	0	0	0	0	0
87 Faridpur	4	3	1	0	1	0	0	1	0	0	0	0	0
88 Bareilly	8	5	3	2	1	0	0	2	1	0	0	0	1
89 Pilibhit	5	4	1	0	1	0	0	1	0	0	0	0	0
90 Nawabganj	4	2	2	2	2	0	0	2	0	0	0	0	0
91 Bisalpur	4	1	3	3	1	0	0	3	0	0	0	0	0
92 Tilhar	4	1	3	3	3	0	0	3	0	0	0	0	0
93 Shahjahanpur	6	4	2	2	2	0	0	2	0	0	0	0	0
94 Shahabad	4	2	2	2	1	0	0	2	0	0	0	0	0
95 Sitapur	5	2	3	1	2	0	1	3	0	0	0	0	0
96 Laharpur	4	3	1	1	0	0	0	1	0	0	0	0	0
97 Gola Gokaran Nath	4	4	0	0	0	0	0	0	0	0	0	0	0
98 Lakhimpur	5	2	3	1	3	0	0	3	0	0	0	0	0
99 Hardoi	5	2	3	3	0	0	0	3	0	0	0	0	0
100 Noida	8	4	4	4	1	0	1	4	0	0	0	0	0
101 Mahmudabad	4	0	4	3	3	0	0	4	0	0	0	0	0

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues		
102 Greater Noida	5	2	3	2	3	0	0	0	3	0	0	0	0
103 Sandila	4	4	0	0	0	0	0	0	0	0	0	0	0
104 Bahraich	5	2	3	3	2	0	0	3	0	0	0	0	0
105 Balrampur	4	3	1	1	0	0	0	1	0	0	0	0	0
106 Maharajganj	6	2	4	3	2	0	0	3	1	0	0	0	1
107 Deoria	5	1	4	1	1	0	0	2	2	0	0	0	2
108 Amroha	5	3	2	2	0	0	0	2	0	0	0	0	0
109 Azamgarh	4	1	3	1	3	0	0	3	0	0	0	0	0
110 Mubarakpur	4	1	3	1	2	0	0	2	1	0	0	0	1
111 Ghazipur	5	3	2	0	2	0	0	2	0	0	0	0	0
112 Varanasi	11	4	7	0	7	0	0	7	0	0	0	0	0
113 Mughalsarai	5	3	2	1	1	0	0	2	0	0	0	0	0
114 Mirzapur-cum-Vindhyachal	6	2	4	3	4	0	0	4	0	0	0	0	0
115 Bhadohi	4	2	2	2	0	0	0	2	0	0	0	0	0
116 Jaunpur	5	0	5	2	5	0	0	5	0	0	0	0	0
117 Akbarpur	5	2	3	2	2	0	0	3	0	0	0	0	0
118 Tanda	4	0	4	2	3	0	0	4	0	0	0	0	0
119 Basti	5	2	3	3	0	0	0	3	0	0	0	0	0
120 Faizabad	6	3	3	2	3	0	0	3	0	0	0	0	0
121 Gonda	4	3	1	1	1	0	0	1	0	0	0	0	0
122 Ayodhya	4	2	2	1	2	0	0	2	0	0	0	0	0

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Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues	
123 Sultanpur	5	5	0	0	0	0	0	0	0	0	0	0
124 Bela Pratapgarh	4	2	2	1	2	0	2	0	0	0	0	0
125 Allahabad	11	7	4	2	3	0	4	0	0	0	0	0
126 Chitrakoot Dham (Karwi)	4	0	4	2	4	0	4	0	0	0	0	0
127 Banda	5	2	3	3	0	0	3	0	0	0	0	0
128 Mahoba	4	1	3	1	1	0	2	1	0	0	0	1
129 Mauranipur	4	0	4	4	3	0	4	0	0	0	0	0
130 Lalitpur	5	4	1	0	1	0	1	0	0	0	0	0
131 Jhansi	8	3	5	2	3	0	4	1	0	0	0	1
132 Jalaun	5	2	3	3	0	0	3	0	0	0	0	0
133 Konch	4	0	4	4	1	0	4	0	0	0	0	0
134 Orai	5	0	5	5	0	0	5	0	0	0	0	0
135 Kalpi	4	1	3	3	3	0	3	0	0	0	0	0
136 Biswan	4	4	0	0	0	0	0	0	0	0	0	0
137 Rae Bareli	5	3	2	2	1	0	2	0	0	0	0	0

Uttarakhand State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
10116752	79.63 %	146454	440	12

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
38 %	70.5 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	13,890	Milk production [^]	1692 tons per annum
Feed manufacturers	0	Co-operative societies [@]	4133
Veterinary hospitals [@]	328	Dairy processing units ^{\$}	105

Ref: [^]<http://www.animalhusbandry.com>,

[@] //dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf,17_Eng.pdf

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	59	28	47.5	31	52.5	--
(a) Compliant	29	17	60.7	12	38.7	49.2
(b) Non-Compliant (NC)	30	11	39.3	19	61.3	50.8
(i) NC with quality issues	23	7	25.0	16	51.6	39.0
(ii) NC with safety issues	6	4	14.3	2	6.5	10.2
(iii) NC with both quality and safety issues	1	0	0.0	1	3.2	1.7
Total samples without safety issues	52	24	85.7	28	90.3	88.1

Uttarakhand State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	23	7	25.0	16	51.6	39.0
NC for fat	21	7	25.0	14	45.2	35.6
NC for SNF	13	1	3.6	12	38.7	22.0
NC for Maltodextrin	0	0	0.0	0	0.0	0.0
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	7	4	14.3	3	9.7	11.9
Aflatoxin M1	7	4	14.3	3	9.7	11.9
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

Uttarakhand State fact sheet



Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues				Non compliant with Safety issues					
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
	UTTARAKHAND	59	29	30	21	13	0	0	24	7	0	0	0	7
1	Dehradun (CB)	4	2	2	1	2	0	0	2	0	0	0	0	0
2	Dehradun (M.Corp + OG)	8	6	2	1	2	0	0	2	0	0	0	0	0
3	Haldwani Cum Kothagudem MB	6	1	5	5	3	0	0	5	0	0	0	0	0
4	Ram Nagar	4	1	3	2	1	0	0	2	1	0	0	0	1
5	Rishikesh	4	1	3	2	1	0	0	2	2	0	0	0	2
6	Hardwar	6	3	3	1	1	0	0	1	2	0	0	0	2
7	Roorkee	5	3	2	1	2	0	0	2	0	0	0	0	0
8	Manglaur	4	1	3	2	0	0	0	2	1	0	0	0	1
9	Kashipur	5	2	3	3	1	0	0	3	0	0	0	0	0
10	Rudrapur	5	3	2	2	0	0	0	2	0	0	0	0	0
11	Pithoragarh	4	4	0	0	0	0	0	0	0	0	0	0	0
12	Jaspur	4	2	2	1	0	0	0	1	1	0	0	0	1

West Bengal State fact sheet

Meta Data-General

Population*	Literacy rate*	Per capita # income	Per capita milk consumption (gm/day) &	No. of towns above 50K population*
91347736	77.08 %	-	148	97

Ref: *National census 2011, #<http://www.esopb.gov.in/Static/PDF/GSDP/Statewise-Data/StateWiseData.pdf>, & Per capita: <http://www.nddb.coop/information/stats/milkprodstate>,

General health status	
Infant Mortality Rate(2016)	Life Expectancy (2010-14)
25 %	68.9 %

Ref: <http://niti.gov.in/content/infant-mortality-rate-imr-1000-live-births>, <http://niti.gov.in/content/life-expectancy>

Meta data – Dairy Industry

Cattle count [^]	64,940	Milk production [^]	5183 tons per annum
Feed manufacturers	3	Co-operative societies [@]	3830
Veterinary hospitals [@]	112	Dairy processing units ^{\$}	24

Ref: [^]<http://www.animalhusbandry.com>,

[@] dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf, [17_Eng.pdf](http://dahd.nic.in/sites/default/files/NDDB_AR_2016-17_Eng.pdf)

^{\$}<http://182.18.154.126/efresh/DairyFarming/Pdf/State%20Wise%20List%20of%20Dairy%20Plants.pdf>

Table 1: Summary of Results

Criteria	Sample, Numbers	Sector wise				Overall, %
		Processed		Raw		
		#	%	#	%	
Total numbers sampled	525	264	50.3	261	49.7	--
(a) Compliant	249	164	62.1	85	32.6	47.4
(b) Non-Compliant (NC)	276	100	37.9	176	67.4	52.6
(i) NC with quality issues	264	89	33.7	175	67.0	50.3
(ii) NC with safety issues	8	8	3.0	0	0.0	1.5
(iii) NC with both quality and safety issues	4	3	1.1	1	0.4	0.8
Total samples without safety issues	513	253	95.8	260	99.6	97.7

West Bengal State fact sheet

Table 2: Non-compliant (NC) Samples due to Quality Concerns (No Safety Issues)

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC without safety issues	264	89	33.7	175	67.0	50.3
NC for fat	139	44	16.7	95	36.4	26.5
NC for SNF	209	59	22.3	150	57.5	39.8
NC for Maltodextrin	3	3	1.1	0	0.0	0.6
NC for Sugar	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters. The non-compliance without safety issues for other parameters viz. cellulose, starch, glucose and vegetable oil was not found in any samples.

Table 3: Non-compliant (NC) Samples with Safety Issues

Test group / Parameter	Samples, numbers	Processed, #	Processed, %	Raw, #	Raw, %	Overall, %
Total NC with safety issue	12	11	4.2	1	0.4	2.3
Aflatoxin M1	12	11	4.2	1	0.4	2.3
Antibiotics	0	0	0.0	0	0.0	0.0
Pesticides	0	0	0.0	0	0.0	0.0
NC for Others	0	0	0.0	0	0.0	0.0
Detergents	0	0	0.0	0	0.0	0.0
Hydrogen peroxide	0	0	0.0	0	0.0	0.0
Neutralizers	0	0	0.0	0	0.0	0.0
Urea	0	0	0.0	0	0.0	0.0

Note: The sum of individual failures will not match to total failures as some samples failed for more parameters.

West Bengal State fact sheet



Table 4
Town wise data on Quality & Safety issues

S.No	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				Total NC with Safety issues
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-Others-NC	Total NC with Safety issues		
	WEST BENGAL	525	249	276	139	209	0	3	268	12	0	0	0	12
1	KALIMPONG	4	0	4	2	4	0	0	4	0	0	0	0	0
2	Maheshala	6	2	4	3	1	0	0	3	1	0	0	0	1
3	PURBA BARDHAMAN	4	0	4	0	4	0	0	4	0	0	0	0	0
4	Kolkata	43	29	14	6	10	0	0	14	0	0	0	0	0
5	Rajpur Sonarpur	6	4	2	2	0	0	0	2	0	0	0	0	0
6	Baruipur	4	3	1	1	0	0	0	1	1	0	0	0	1
7	Budge Budge	4	0	4	3	1	0	0	4	0	0	0	0	0
8	Haora	10	0	10	4	9	0	0	10	0	0	0	0	0
9	Uluberia	6	5	1	1	1	0	0	1	0	0	0	0	0
10	Bankra	4	1	3	3	3	0	0	3	0	0	0	0	0
11	Bally	6	1	5	2	5	0	0	5	0	0	0	0	0
12	Baranagar	7	2	5	4	3	0	0	5	1	0	0	0	1
13	Dum Dum	5	2	3	0	2	0	0	2	1	0	0	0	1
14	South DumDum	6	1	5	3	3	0	0	4	1	0	0	0	1
15	North DumDum	6	3	3	3	0	0	0	3	0	0	0	0	0
16	Rajarhat Gopalpur	6	2	4	3	2	0	0	3	1	0	0	0	1
17	Bidhannagar	5	2	3	3	0	0	0	3	0	0	0	0	0

West Bengal State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
18	Panihati	6	1	5	3	3	0	0	4	1	0	0	0	1
19	Kamarhati	6	3	3	2	3	0	0	3	0	0	0	0	0
20	Barasat	6	2	4	1	3	0	0	3	1	0	0	0	1
21	New Barrackpore	4	1	3	1	3	0	1	3	0	0	0	0	0
22	Madhyamgram	5	3	2	1	2	0	0	2	0	0	0	0	0
23	Khardah	5	2	3	1	2	0	1	3	0	0	0	0	0
24	Titagarh	5	3	2	2	2	0	0	2	0	0	0	0	0
25	Barrackpore	5	1	4	1	3	0	0	4	0	0	0	0	0
26	North Barrackpore	5	3	2	1	1	0	0	2	0	0	0	0	0
27	Halisahar	5	4	1	1	0	0	0	1	0	0	0	0	0
28	Garulia	4	4	0	0	0	0	0	0	0	0	0	0	0
29	Kanchrapara	5	4	1	0	1	0	0	1	0	0	0	0	0
30	Bhatpara	6	5	1	0	0	0	0	0	1	0	0	0	1
31	Naihati	6	5	1	1	0	0	0	1	1	0	0	0	1
32	Ashokenagar Kalyangarh	5	3	2	1	1	0	0	2	0	0	0	0	0
33	Basirhat	5	5	0	0	0	0	0	0	0	0	0	0	0
34	Baduria	5	5	0	0	0	0	0	0	0	0	0	0	0
35	Uttarpara Kotrung	5	1	4	3	4	0	0	4	0	0	0	0	0
36	Habra	5	2	3	0	3	0	0	3	0	0	0	0	0
37	Konnagar	4	1	3	2	1	0	0	3	0	0	0	0	0
38	Rishra	5	0	5	4	4	0	0	5	0	0	0	0	0

West Bengal State fact sheet

Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues						Non compliant with Safety issues				
				Fat NC	SNF NC	Sugar NC	Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
39 Bongaon	5	2	3	0	3	0	1	3	0	0	0	0	0	0
40 Serampore	5	1	4	1	3	0	0	4	0	0	0	0	0	0
41 Dankuni	4	1	3	3	1	0	0	3	0	0	0	0	0	0
42 Chandannagar	5	3	2	0	2	0	0	2	0	0	0	0	0	0
43 Baidyabati	5	5	0	0	0	0	0	0	0	0	0	0	0	0
44 Hugli-Chinsurah	5	3	2	1	2	0	0	2	0	0	0	0	0	0
45 Champdani	5	4	1	0	1	0	0	1	0	0	0	0	0	0
46 Bhadreswar	4	2	2	1	1	0	0	2	0	0	0	0	0	0
47 Kalna	4	2	2	1	2	0	0	2	0	0	0	0	0	0
48 Bansberia	5	4	1	1	1	0	0	1	0	0	0	0	0	0
49 Arambag	5	2	3	1	2	0	0	3	0	0	0	0	0	0
50 Katwa	4	2	2	2	2	0	0	2	0	0	0	0	0	0
51 Bardhaman	8	7	1	1	0	0	0	1	0	0	0	0	0	0
52 Jhargram	4	1	3	1	3	0	0	3	0	0	0	0	0	0
53 Asansol	8	7	1	0	1	0	0	1	0	0	0	0	0	0
54 Durgapur	6	2	4	2	3	0	0	4	0	0	0	0	0	0
55 Kulti	6	1	5	2	4	0	0	5	0	0	0	0	0	0
56 Jamuria	5	1	4	2	4	0	0	4	0	0	0	0	0	0
57 Bankura	4	3	1	0	1	0	0	1	0	0	0	0	0	0
58 Bishnupur	5	3	2	1	1	0	0	2	0	0	0	0	0	0
59 Raniganj	5	3	2	0	2	0	0	2	0	0	0	0	0	0

West Bengal State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
60	Puruliya	5	1	4	3	3	0	0	4	0	0	0	0	0
61	Medinipur	4	2	2	2	2	0	0	2	0	0	0	0	0
62	Kharagpur Rly. Settlement	4	1	3	2	3	0	0	3	0	0	0	0	0
63	Panskura	5	1	4	2	3	0	0	4	0	0	0	0	0
64	Kharagpur	5	3	2	2	2	0	0	2	0	0	0	0	0
65	Contai	4	1	3	2	2	0	0	3	0	0	0	0	0
66	Ghatal	6	2	4	2	3	0	0	4	0	0	0	0	0
67	Haldia	4	2	2	0	2	0	0	2	0	0	0	0	0
68	Tamluk	4	2	2	0	2	0	0	2	0	0	0	0	0
69	Kalyani	5	0	5	1	5	0	0	5	0	0	0	0	0
70	Ranaghat	4	1	3	1	2	0	0	3	0	0	0	0	0
71	Gayespur	4	0	4	0	4	0	0	4	0	0	0	0	0
72	Phulia	4	2	2	1	1	0	0	2	0	0	0	0	0
73	Chakdaha	4	0	4	1	3	0	0	4	0	0	0	0	0
74	Santipur	5	3	2	1	2	0	0	2	0	0	0	0	0
75	Kandi	4	1	3	1	3	0	0	3	0	0	0	0	0
76	Jiaganj-Azimganj	4	4	0	0	0	0	0	0	0	0	0	0	0
77	Berhampore	5	4	1	0	1	0	0	1	0	0	0	0	0
78	Nabadwip	5	3	2	1	2	0	0	2	0	0	0	0	0
79	Krishnanagar	5	4	1	1	0	0	0	1	0	0	0	0	0
80	Dhulian	4	1	3	1	3	0	0	3	0	0	0	0	0

West Bengal State fact sheet

	Town Name	No. Of Samples	Compliant	Non Compliant(NC)	Non compliant with Quality issues					Non compliant with Safety issues				
					Fat NC	SNF NC	Sugar Maltodextrin-NC	Total NC with Quality issues	Afla - NC	Antibiotics-NC	Pesticides-NC	Others-NC	Total NC with Safety issues	
81	Jangipur	4	4	0	0	0	0	0	0	0	0	0	0	0
82	Bolpur	4	2	2	0	2	0	2	0	0	0	0	0	0
83	Suri	4	1	3	1	2	0	2	0	1	0	0	0	1
84	Rampurhat	4	2	2	0	2	0	2	0	0	0	0	0	0
85	English Bazar	6	4	2	1	2	0	2	0	1	0	0	0	1
86	Gangarampur	4	2	2	0	2	0	2	0	0	0	0	0	0
87	Old Malda	4	2	2	2	2	0	2	0	0	0	0	0	0
88	Balurghat	5	2	3	2	3	0	3	0	0	0	0	0	0
89	Kaliaganj	4	1	3	1	3	0	3	0	0	0	0	0	0
90	Raiganj	5	1	4	0	4	0	4	0	0	0	0	0	0
91	Islampur	4	2	2	2	2	0	2	0	0	0	0	0	0
92	Jalpaiguri	5	2	3	2	1	0	3	0	0	0	0	0	0
93	Kharria	4	3	1	0	1	0	1	0	0	0	0	0	0
94	Alipurduar	4	2	2	2	2	0	2	0	0	0	0	0	0
95	Koch Bihar	4	1	3	3	2	0	3	0	0	0	0	0	0
96	Binnaguri	4	2	2	1	2	0	2	0	0	0	0	0	0
97	Siliguri	6	1	5	5	3	0	5	0	0	0	0	0	0
98	Darjiling	5	2	3	1	3	0	3	0	0	0	0	0	0
99	Dabgram	5	1	4	4	0	0	4	0	0	0	0	0	0

Annexure-10
List of staff involved in NMQS-2018

FSSAI Management

1. Shri .PawanAgarwal, CEO
2. Dr. Bhaskar Narayan, Advisor-QA
3. Mr. Sunil Bakshi, Head-Regulations
4. Mr. Umesh Jain, Joint Director-QA
5. Dr. Monica Puniya, Assistant Director-QA
6. Mr. Nilesh Ojha, Assistant Director-QA

FSSAI Commissioners

S.No	State	Contact Details
1	Arunachal Pradesh	H.KalingTayeng, IAS Commissioner of Food Safety, Tel: 0360-2212420 arunachalfoodsafety@ yahoo.co.in
2	Assam	Smt. VarnaliDeka, IAS Commissioner of Food Safety, Health & Family Welfare Department, 0361-2237488 hlbhealthassam@gmail.com
3	Chhattisgarh	Shri P.V. NarasinghRao, IAS Commissioner of Food Safety, Food and Drug Administration, Tel. 0771-2235226 controllerraipur@gmail.com, narsingifs62@gmail.com
4	Chandigarh	Sh. AnuragA garwal, IAS Commissioner of Food Safety, Tel: 0172-2740216,2740008 hs-chd@ nic.in
5	Goa	Smt. Jyoti J. Sardesai, Commissioner of FoodSafety, Director of FDA, 0832-2459226, 2459230 dfda.goa@ nic.in, jyotijs27@yahoo.co.in

S.No	State	Contact Details
6	Gujarat	Dr. H. G. Koshia, Commissioner of Food Safety, Food and Drugs Control Administration, 079- 23253417, 23253399 comfdca@gujarat.gov.in,koshia@yahoo.co.in
7	Himachal Pradesh	Sh. Prabodh Saxena, IAS Commissioner of Food Safety Tel: 0177-2624538, 2621383 healthsecy-hp@nic.in,dhsrshimla@gmail.com
8	Jammu & Kashmir	Dr. Pawan Kotwal, IAS Commissioner of Food Safety & Controller, Drugs & Food Control Organisation Tel: 0194-2471558 controllerdrugsfoodjk@yahoo.in, secyhealthjk@gmail.com
9	Jharkhand	Ms. Nidhi Khare, IAS Commissioner of Food Safety Tel: 0651-2490583, 2491033 hlthdept.fdi@gmail.com, acshfw.jharkhand@gmail.com
10	Karnataka	Sh. Manoj Kumar, IAS Commissioner of Food Safety & Commissioner of Stamp & Inspector General of Registration 080-22354085, 22874039 jdphilabs@gmail.com, comhfw@gmail.com
11	Kerala	Sh. M G Rajamanickam, IAS Commissioner of Food Safety, Office of Commissioner of Food Safety, Tel:0471-2322833, 2322844 foodsafetykerala@gmail.com
12	Manipur	Sh. Sumant Singh, IAS Commissioner of Food Safety, H.Q of State Food Safety Commissioner Ph: 0385-2450981, manipurfssa@gmail.com

S.No	State	Contact Details
13	Meghalaya	ShP.W.Ingty, IAS Commissioner food safety, Additional Chief Secretary (Health), 0364- 2225669, pwingty@yahoo.co.in
14	Nagaland	Sh. Motsurhung Patton, IAS PrincipalSecretary, Commissioner of Food Safety, Nagaland Civil Secretariate, Department of Health & Family Welfare, Tel: 0370-2270457 menukhol@yahoo.com, dr_nkire@yahoo.co.in
15	Odisha	Ms. ArchanaPatnaik, IAS Commissioner of Food Safety, Tel: 0674-2380600 foodsafetyodisha@gmail.com
16	Punjab	Sh. VarunRoojam, IAS Commissioner of Food and Drug Administration Ph: 0172-2266931 md_phsc@yahoo.in
17	Uttarkhand	Sh. Nitesh Kumar Jha, IAS Commissioner of Food Safety, Tel: 0135- 2712066 commis.fssauk@gmail.com
18	Telangana	Smt A. Shanthi Kumar , IAS Principal Secretary to Government Commissioner of FoodSafety, Directorate of Institute of Preventive medicine, Tel: 040-23547107 prlsecy_hmfw@telangana.gov.in telanganacfs@gmail.com
19	TamilNadu	Ms. P.Amudha, IAS Commissioner Food Safety, Tel: 044-24350983 commrfssatn@gmail.com

S.No	State	Contact Details
20	Haryana	Dr. Saket Kumar, IAS Commissioner of Food Safety, Food & Drug Administration, Mission Director, NRHM, Department of Health Tel: 0172-2583189, 2583557 md-hr-nrhm@nic.in, haryanafda@gmail.com
21	Madhya Pradesh	Dr. Pallavi Jain Govil, IAS Commissioner of Food Safety, Controller (Food & Drugs Administration) Tel-Fax: 0755-2441071, 2665036 fda.bhopal@gmail.com
22	Rajasthan	Dr. V. K. Mathur, Commissioner of Food Safety, Directorate of Medical, Health & Family Welfare Services, 0141- 2229858, directorph-rj@nic.in

FSSAI Nodal Officers

S.No	State	Contact Details
1	Andaman & Nicobar Island	Mr. Mann Abraham DO Food Safety, 9434262833 anicfs2013@gmail.com
2	Andhra Pradesh	Dr. P. Manjari Director Instt of Preventive Medicine 9515053159, diripmap2@gmail.com
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7	Chhatisgarh	Shri A.K. Devangan Asst. Commissioner, 9300850010 drashwanidewangan@gmail.com
8	Dadara & Nagar Haveli	Dr. Dumralia Dep. Director, Animal Husbandary Dept dnh@nic.in, collector_dnh@nic.in
9	Daman & Diu	Dr. K.Y. Sultan , Director 9978930867, dmhs-daman-dd@nic.in
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12	Gujarat	Mr. V.R. Shah Deputy Commissioner Food FDCA, Gandhinagar, 09825061450 vrshah.fdca@gmail.com

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22	Manipur	Ms. Regina HongrayArun Kumar, Deputy Secretary FSO, 08974892738, 09856358837 reginahongray@gmail.com
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25	Nagaland	SanjayKumar(Commissioner) Dr.L.Watikala PrinDir&Addl Food Safety Comm sanjay.garg@nic.in 08974918829
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36	West Bengal	SmtGodhuli Mukherjee IES,Commissioner 09831323025 , cfswb10@ gmail.com

VIMTA Management

1. Dr. S.P. Vasireddi, Chairman
2. Ms. Haritha Vasireddi, Managing Director
3. Mr. V. Harriman Vungal, Executive Director-Operations
4. Mr. V.V. Prasad, Executive Director-Administration

Head of the Project

1. Mr. Jagadeesh Kodali, Vice President-Food Division

Project management staff

1. Mr. K. Vighnaraju, Assistant Manager (Food)- Field co-ordination
2. Mr. Chanakya Rao Ivatury, Manager-Customer Service- FSWs co-ordination
3. Mr. Vanama Vishnu Kanth, Manager-CRM & Logistics
4. Mr. Vallapu Manoj Reddy, Executive

Support departments

1. Mr. Sireesh Chandra Vungal, Vice President-Information Technology
2. Mr. Venkateswara Rao Papineni, Vice President- HR Division
3. Mr. Suryavamsi V, Dy Manager-HR Division
4. Mr. Achyut Kodali, Manager-HR Division
5. Mr. Chandramohan Gollamud, Sr. Manager-Admin
6. Mr. Venkataratnam Kotti, Manager-Commercial
7. Mr. Naresh Sadula, Travel Desk

Technical Department

1. Dr. Pavuluri Srinivas, Asst. Manager- Residue analysis
2. Dr. Narayan Kamble, Group leader- Residue analysis
3. Mr. Raviteja, Analyst-Residue analysis
4. Ms. Bhagya Rekha, Analyst-Residue analysis
5. Ms. Tejeswi, Analyst-Residue analysis
6. Mr. Pavan Kumar, Analyst-Residue analysis
7. Dr. Aravind, Analyst-Residue analysis
8. Mr. Srinivas Durgi, Analyst-Residue analysis
9. Mr. Mallikarjun Arelli, Dy. Manager- Nutrition
10. Mr. G. Nagavenkat, , Analyst-Wet analysis

11. Mr. K. Anand, Analyst-Wet analysis
12. Ms. Shwetha Chillara, Analyst-Wet analysis
13. Mr. Rammohan, Analyst-Wet analysis

Software Developer

1. Mr. Senthil, Bloomedha Info Solutions
2. Mr. Mahesh, Bloomedha Info Solutions
3. Mr. Arul, Bloomedha Info Solutions

Field Samplers

1. Mr. V. Sudhakar
2. Mr. M. Naveen Gandhi
3. Mr. V. Sitaram
4. Mr. M. Aakash
5. Mr. N. Ramchandra Reddy
6. Mr. R.K. Pathnak
7. Mr. K. Nagarjuna
8. Mr. B. Prashanth
9. Mr. Ch. Siva Krishna
10. Mr. U. Mahender
11. Mr. K. Ramu
12. Mr. Pravin Nogia
13. Mr. B. Ravindranath
14. Mr. SK. Anwar
15. Mr. B.K. Choudhary
16. Mr. Dilip Kumar
17. Mr. Prasanna Chekraborty
18. Mr. Sanjib Kumar Biswas
19. Mr. P. Rohith
20. Mr. P. Vijay Kumar
21. Mr. Rajesh Sharma
22. Mr. Lalit Kumar
23. Mr.R.Revanth
24. Mr.Y.Ramesh

25. Mr.Rammohan
26. Mr.ShankarNandevJadhav
27. Mr.Srikanth
28. Mr.BRavindranath

Quality Assurance Team

1. Dr.Kamaldeep Singh Grover, Vice President-Quality Assurance
2. Ms.SudheshnaVungal, Dy.Manager-Quality Assurance
3. Ms.AnushaPunukool, Sr.Auditor-Quality Assurance
4. Mr.Narasimha, Quality auditor-Hyderabad
5. Mr.Sandeep.J, Quality auditor-Hyderabad
6. Mr.Narender.R, Quality auditor-Hyderabad
7. Mr.Nishith, Quality auditor-Indore
8. Mr.Balakumar, Quality auditor-Bangalore
9. Mr.Vaishnav.K, Quality auditor-Visakhapatnam
10. Mr.Aneesrahaman, Quality auditor-Cochin
11. Mr.Arghya Das Gupta, Quality auditor-Kolkata
12. Mr.Sanjaykumararora, Quality auditor-Ahmedabad
13. Mr.Pankaj , Quality auditor-Pune

Branch Labs staff

1. Mr.Aaji Pasha, Branch manager- Visakhapatnam
2. Mr.GanesanThangavel, Branch manager-Cochin
3. Mr.PrasadAdari, Branch manager-Kolkata
4. Mr.Ghosh, Sr.Manager-Kolkata
5. Mr.VijayChejara, Branch manager- Indore
6. Mr.Anil Kumar Anumula, Branch manager-Bangalore
7. Mr.Atul Kumar Gupta, Branch manager-Ahmedabad
8. Mr.ShriramKulkarni, Branch manager-Pune
9. Dr.RahamathShaik, Branch manager-Bhimavaram
10. Dr.Harinath, Branch manager-Nellore
11. Mr.Vimala, Branch manager-Chennai

Accounts and Finance

1. Mr.Murali Mohan Mokkaapati, CFO
2. Mr.A A V Ramkrishna
3. Mr.Rameshpupuri
4. Mr.Anil Kumar
5. Mr.KJsrinivas

Sample Registration Teams

1. Mr.Chakradhar
2. Mr.Ragavendra
3. Mr.NaveenChemala
4. Mr.Karthik
5. Mr.Naveen K

Vehicle Drivers

1. Mr.Sravan Kumar
2. Mr.Srinivas
3. Mr.Krishna
4. FSW drivers

Courier service

1. Blue Dart India Pvt. Ltd
2. DTDC

Milk-O-Screen Supplier

1. Indifoss Analytical Pvt Ltd, JC Bioage Analytical Pvt Ltd

Kit Suppliers

1. JC Bioage Analytical Pvt Ltd
2. Indifoss Analytical Pvt Ltd

Garments Supplier

1. SVD Garments &Vardhaman Dress

Tabs used for software

1. Lenova

Mobile SIM cardused

1. Airtel
2. Idea

Petro Cards

1. Indian Oil Corporation Limited.

Bankers

1. Axis Bank Private Limited.

Annexure-11
About independent third party
agency VIMTA Labs

About VIMTA Labs:

VIMTA Labs Limited has been a pioneer in the country in testing laboratory space. VIMTA has been providing quality contract research and testing services to the Food, Beverages, Pharma, Biotech, Medical devices, Cosmetics, Personal Care and other FMCG (Fast Moving Consumer Goods) and Chemical industries. Established in 1984, VIMTA has more than three decades of experience in serving the Indian economy through its reliable and quality food testing services and has been known for its quality and integrity of data and results globally.

Headquartered in Hyderabad, VIMTA has the largest pan India network of food testing laboratories (9 locations in Pune, Ahmedabad, Kolkata, Bengaluru, Nellore, Visakhapatnam, Kochi and Kolkata) to serve the Food Industry requirements for reliable, fast and quality testing services. All the food testing laboratories are ISO/IEC 17025:2005/ 17025:2017 accredited by NABL and accreditations include FSSAI, BIS, EIC, APEDA, AGMARK, Tea board and European commission. The residue (contaminants) testing lab at VIMTA Labs is compliant to GLP and approved by National GLP monitoring authority, NGCMA.

