

BUREAU OF INDIAN STANDARDS

CONFORMITY ASSESSMENT SCHEME FOR MILK AND MILK PRODUCTS

Foreword

The Conformity Assessment Scheme for Milk and Milk Products [Scheme-IX of BIS (Conformity Assessment) (Sixth Amendment) Regulations, 2021] focuses on the certification of milk and milk products along with certification of process requirements and Food Safety Management System (FSMS) implemented by the dairy unit in order to improve safety and quality. BIS has developed this novel and first of its kind certification scheme for milk and milk products considering the perishable nature and short shelf-life of milk and milk products, as well as the extensive cold-chain involved in the production and supply of milk and milk products.

During the development of this scheme, assistance has been taken from the 'Quality Mark' certification scheme of National Dairy Development Board (NDDB) for milk and milk products.

 No. 1. Scope This scheme covers requirements of conformity assessment of milk and n products for grant of BIS licence in accordance with Scheme-IX of BIS (Conform Assessment) (Sixth Amendment) Regulations, 2021 for Grant of licence to use apply Standard Mark for goods and articles conforming to Indian Standard combined with conformity of management system to Indian Standard and conform of process requirements to be read in conjunction with the of BIS (Conform Assessment) Regulations, 2018 operated under the provisions of Bureau of Indian Standards Act 2016. Under this scheme, licence(s) may be granted by the Bureau to a dairy to organization— a) When compliance of Food Safety Management System implement by a dairy unit/ organization to the requirements given in IS/I 22000 is demonstrated*, b) When conformity of milk and milk products to the correspond Indian Standards is established, and c) When compliance of process parameters as prescribed in this scheme is demonstrated. Note-1: Activities, processes, products or services that can have an influence on food orfertu of the and products shall not be avaluaded from the score of Food Safety of the score of Food Safety for th	uity or l(s) uity uity ian unit/ ted SO ing me
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food safety of the end products shall not be excluded from the scope of Food Sa Management Systems certification in accordance with Clause 9.1.1 of ISO 22003.	fety
 *Note-2: In case a dairy unit/ organization applying for certification under scheme is holding a valid Food Safety Management System certification as IS/ISO 22000 issued by an NABCB accredited certification body may be accept as demonstration of compliance. Provided that: 1. The applicant shall submit proof of satisfactory performance of certification annually, and 2. Undertake to apply for re-certification to BIS. 3. Scope of FSMS certification includes all milk and milk products for which application is made. 	per oted
 Note-3: For Dairy units who have been awarded NDDB's quality mark- S these dairy units have demonstrated compliance to the requirements as prescribe the Guidelines for award of Quality Mark and have also demonstrated compliance process requirements, the licence can be granted under this scheme if: i) conformity of products to the relevant Indian Standards is established eit through in-house test reports or test reports from BIS recognized/ empanethird party laboratories; ii) Verification of manufacturing facility, testing facility and competence of personnel. iii) Wherever the dairy unit is not holding FSMS certification, assessment audit of FSMS also. 	d in e to ther eled QC
Processes of the scheme	
2. Processes of the scheme 2.1 Application-	
The dairy units/ organizations desirous of certification may submit application respective Regional Office in the prescribed application form along with relevance documents and fees.	
Pre-requisites for a dairy unit to be eligible for applying for certification:	

	1. The unit shall hold valid Licence from Food Safety and Standards Authority of India (FSSAI) as required under the Food Safety and Standards Act, 2006 and Regulations there under.
	2. The unit has established an inspection and testing plan for each product to be covered under the scope of this certification scheme. Wherever Scheme of Inspection and Testing plan has been developed by the Bureau, it is
	recommended that the same shall be adopted by the manufacturer.3. The unit has implemented a Food Safety Management System in accordance with IS/ISO 22000.
	4. The unit has established process requirements as specified in Annex-II of this scheme.
	5. The milk and milk products are conforming to the relevant Indian Standards. The conformity may be established through testing in a BIS recognized/ empaneled laboratory or testing in manufacturer's laboratory or a combination of both.
	6. Water being used as an ingredient shall comply with IS 10500 (Drinking Water- Specification).
	 7. Process water being used for general operations such as washing, flushing, boiler feed, indirect cooling, etc shall comply with IS 4251 (Quality tolerances for water for processed food industry)
	Note- Testing of various milk and milk products for demonstrating conformity to relevant Indian Standards shall be in accordance with the sampling/ grouping guidelines as given in respective product manuals.
2.2	Application Review
	The application is reviewed by the Management Systems Certification Officer in the Regional Office (MSCOR). The Bureau may call for required documents and/or any supplementary information and/or any documentary evidence from the applicant in support of or to substantiate any statement made in the application, within such time as may be directed by the Bureau and non-compliance with such direction may result in the application being summarily rejected by the Bureau. If the documents and/or information and/or evidence furnished by the applicant are found to be satisfactory, the application may be recorded and processed for grant of licence.
	Following the review of application, decision to accept or decline an application shall be taken and documented. Provided that, before rejecting any such application, the applicant shall be given an opportunity to remove, within twenty-one days of the date of receipt of relevant communication from the Bureau, such objections as may be indicated by the Bureau. Decision shall also to be communicated to client.
2.3	Audit Programme
	An audit programme for the full certification cycle is developed to clearly identify
	the audit activities required to demonstrate compliance to requirements prescribed herein. The audit programme for certification cycle covers Stage 1, Stage 2 audit and surveillance audit for the first and second years following the certification decision, and a re-certification audit in the third year prior to expiration of certification.

2.4	Determining the Audit Time
	Audit time is calculated based on the following
	a) Time taken for auditing Food Safety Management System (applicable only for
	units applying for FSMS also. For units already holding valid and accredited
	FSMS certification, audit time does not include time taken for auditing FSMS.
	However, when the organization shifts their FSMS to BIS, the audit duration
	for recertification audit is taken);
	b) Time taken for verification of manufacturing machinery, testing equipment and
	inspection & testing plan;
	c) Time taken for visit to collection center/ chilling center, etc as applicable for
	establishing compliance to process parameters; and/ or d) Any additional time required for testing of milk and milk products in the
	manufacturer's laboratory.
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2.5	Planning of Audits
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2.5.1	Determining Audit Objectives, Scope and Criteria
	The audit scope includes the extent and boundaries (including sites) of the audit,
	activities and processes to be audited. Accordingly, the Criteria shall be based on the scheme requirements of product standards, process requirements and the Food Safety
	Management System.
2.5.2	
2.3.2	Audit Team Selection and Assignments
	The auditors for this scheme shall possess competence as laid down in the Guidelines. The audit team shall have at least one auditor/ expert having expertise
	for the dairy sector. If expertise is required for testing of product, manpower may be
	identified and included in the audit team.
	The audit team for initial, re-certification and surveillance audits shall have at least
	one auditor of National Dairy Development Board (NDDB) empaneled with BIS.
	The integrity and impartiality of the audit team while executing the audit shall be
	ensured at all times both through the documented procedure and guidelines as well as
	any supervision placed on the team. The appropriate working documents which
	comprise of audit reports, format, etc are provided to the audit team.

2.6	Stage 1 Audit
	Stage 1 audit is carried out to determine expertise required for specific scope sectors for the initial/certification audit, scope of the audit, clients' site details, processes and
	equipment, levels of control established, applicable statutory and regulatory requirements and allocation of resource requirements for Stage 2. The Stage 1 audit provides a focus for planning Stage 2 by gaining sufficient understanding of client's
	management system standard or other normative documents.
	Stage 1 audit may be carried out for at least 2 mandays. Stage I audit shall include verification of:
	1. Availability of manufacturing machinery,
	2. Availability of inspection and testing plan for each product,
	3. Availability of test facility whether in-house or testing arrangement with BIS recognized laboratories,
	4. Verification of hygienic conditions,
	5. Competence of the Quality Control Personnel; and
	 Evidence of product conformity to relevant Indian Standards as established through in-house testing records or through test reports from BIS recognized / empaneled Laboratory.
	 7. Readiness of the organization in terms of implementation of process requirements and FSMS requirements.
	Refer Checklist for Stage I audit given at Annex-V, the findings of the stage 1 audit shall be documented and communicated to the applicant, including identification of
	any areas of concern that could be classified as nonconformity during the stage 2 audit. In case, significant changes occur between Stage 1 and Stage 2 audit which could impact the management system, stage 1 audit may be repeated. In such a case,
	the client shall be informed that the results of stage 1 may lead to postponement or cancellation of stage 2 audit.
	Stage 1 audit may be 1 manday for dairies already holding FSMS certification from other CBs.

2.7	Stage 2 Audit		
	During Stage 2 audit, information and evidence are collected to ensure conformity to		
	all requirements of food safety management system standard, conformity of product		
	to relevant Indian Standard and process controls.		
	Stage 2 audit shall include following assessment, but not limited to:		
	1. Compliance to the inspection and testing plan either through in-house testing		
	records or results from BIS recognized/ empaneled Laboratory, wherever acceptable;		
	2. Level of compliance to process requirements shall be as per Table below		
	(refer Checklist for Stage-2 audit, given at Annex-VI)		
	Sr. Parameters % Compliance		
	No. 1. Critical 100 %		
	1. Childan 100 % 2. Major Minimum 85 %		
	3. Minor Minimum 70 %		
	3. Visit to collection centers/ chilling centers;		
	4. Factory testing of milk and milk products on sampling basis*;5. Verification of records;		
	 6. Internal auditing and management review; 		
	7. Performance monitoring, measuring;		
	8. Performance objectives and targets;		
	 Ability to meet statutory/regulatory and contractual requirement; 10. Any other requirement as prescribed by the Bureau. 		
	Tot Tiny outer requirement as presenteed by the Dareau.		
	Any non-conformity found is recorded, and the organization is required to undertake		
	root cause analysis and describe the specific corrections and corrective actions, taken or planned to be taken, to eliminate the detected nonconformities as well as the		
	causes for these non-conformities, within a defined time frame.		
	*Note- If the applicant has submitted complete test reports of products from BIS		
	recognized Laboratories; factory testing may be limited to verification of competence of QC personnel, verification of capability of Testing equipment.		
	of QC personnel, vermeation of capability of resting equipment.		
3.	Grant of Licence		
	After satisfactory evaluation of the audit findings, BIS will process for grant of		
3.1	licence for the scope of as recommended by the audit team. Scope of Licence-		
5.1	The scope of licence shall include:		
	i) Name of product(s) conforming to relevant Indian Standards,		
	ii) Type(s),		
	iii) Material of packaging and pack size,iv) Conformity of Food Safety Management System implemented by the dairy		
	unit/ organization to the requirements of IS/ISO 22000,		
	v) Conformity of process requirements as prescribed in this scheme,		
	The scope of licence should be identified and defined by the applicant considering		
	the products, process, services or activities that the organization is able to provide.		
	It may happen that the dairy unit/ organization decides not to cover its entire product		
	range under this scheme but decides to include only a part of its product range. In		
	that case, the audit shall be restricted to the products included within the defined scope.		

3.2	Validity of Licence The licence shall be valid for three years. The validity period may be extended or reduced, as decided by the Bureau. During the validity of licence, the Licensee shall be subject to regular surveillance and renewal audits for compliance to the requirements of the Licence.
4	SurveillanceThe surveillance audit shall be carried out at least once a year, except in recertification years.Surveillance shall include review of compliance to inspection and testing plan, conformity of products to the relevant Indian Standards, Internal audits, Management review, review of actions taken on non-conformities identified during the previous audit, complaints handling, effectiveness of system with regard to objectives, progress of planned objectives and continual improvement, continuing process controls, factory testing for possible tests, review of any changes and usage of certification marks.Bureau may also draw product samples for testing in BIS recognized/ empaneled
5.	Iaboratories to verify conformity of products as per relevant Indian Standards. Re-certification Renewal (or recertification) audits are planned and conducted in due time to enable renewal before the expiry date. Renewal audit is conducted to evaluate and confirm the continued conformity and effectiveness of the system as a whole, and its continued relevance and applicability for the scope of certification. The procedures and guidelines are consistent with those for initial audit. Re certification audit activities may need to have stage 1 audit in situations where there are significant changes to management system, the organization, or the context in which management system is operating.
	When recertification activities are successfully completed prior to the expiry date of the existing certification, the expiry date of the new certification can be based on the expiry date of the existing certification. The issue date on a new certificate is required to be on or after the recertification decision. When recertification audit has not been completed or in a situation where it is not possible to verify the implementation of corrections and corrective actions for any major non-conformity prior to the expiry of date of the certification shall not be extended. The client is required to be informed and the consequences explained. Following the expiration of certification, within 6 months the certification can be restored provided the outstanding recertification activities are completed, otherwise at least a stage 2 audit shall be conducted. The effective date of on the certificate shall be on or after the recertification decision and the expiry date shall be based on prior certification cycle.
6.	Special audits In addition to the above mentioned audits, BIS may decide to conduct special audits due to change in scope, reduction, suspension, withdrawal, cancellation, etc. Unannounced audits (Short-notice audits) may be conducted to investigate the complaints or in response to changes or follow up on suspended clients.

7.	Use of Standard mark
	The Standard Mark in relation to Conformity Assessment Scheme for milk and milk
	products shall be specified by the Bureau and shall be used in a manner specified by
	the Bureau.
	The design of standard mark in relation to conformity assessment for milk and milk
	products is given in Annex- III.
	The photographic reduction and enlargement of the Standard Mark as specified in
	Annex-III is also permitted.
8.	Suspension of Licence
	If, at any time, Bureau has sufficient evidence that the dairy unit/ organization may
	not be conforming to any requirements as laid down in this scheme, the Bureau may
	suspend for all products or partially suspend use of standard mark for a specified
	product, as the case may be. The evidence may include one or more of the following,
	but not limited to:
	a) Test result indicating non-conformity of the product to the relevant Indian Standard
	b) Using Standard Mark in a manner not permitted by the Bureau;
	c) Discontinuance of operation for more than six months;
	d) Corrective actions are not taken within the time frame specified by the
	Bureau;
	e) Relocation of premises, without prior intimation to the Bureau;
	f) False declaration in relation to the licence or indulged in falsification of
	records or unfair trade practices;
	g) Failure to cooperate with the Bureau or its authorized representative for any
	such audit(s) as may be required during the operation of the licence.
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13.	Records			
	All dairy units shall maintain records of process controls, monitoring, test results, etc			
	as required by the Food Safety Management system as well as process requirements			
	and inspection and testing plan for product conformity shall be maintained legibly			
	and reproduced during the audits of BIS. These include following basic records:			
	i) Traceability records pertaining to the raw milk, other food ingredients,			
	additives, preservatives etc.			
	ii) Purchase of SMP and other conserved dairy commodities for use			
	manufacture of milk and milk products – supplier details/ results of analysis			
	of such commodities etc. used by the unit.			
	iii) Milk production monitoring records, including records of trainings imparted			
	to producers and audit of primary milk production holdings.			
	iv) Raw material receiving (including records for milk being received from Milk			
	Collection Centres, BMCs, Chilling Centres) and evaluation records.			
	v) Temperature records of chill room (s)/ storage tanks (when in operation),			
	pasteurizer, chillers, driers etc.			
	vi) Quality Control / Lab test reports records.			
	vii) Consolidated daily production records			
	viii) Microbiological / /chemical test reports pertaining to milk and milk products,			
	water, other food ingredients, additives etc.			
	ix) Packing/packaging material records			
	x) CCP monitoring records			
	xi) Corrective action and verification records			
	xii) Cleaning, plant hygiene and sanitation records			
	xiii) Pest Control records			
	xiv) Calibration records			
	xv) Infrastructure and equipment maintenance records			
	xvi) Training records			
	xvii) Health record of the employees (involved in milk handling operations)			
	xviii) Any other records as required by IS/ISO 22000			
	xix) Product certification records as specified in the corresponding inspection and			
14	testing plan for individual products.			
14.	Annexures			
Annex I	List of Indian Standards on milk and milk products			
Annex II	Process Requirements			
Annex III	Standard mark			
Annex IV Annex V	Fee structure			
Annex V Annex VI	Checklist for Stage 1 audit Checklist for Stage 2 audit			
Annex VI	Checklist for Stage 2 audit			

Annex-I
List of Indian Standards on milk and milk products

SI.	IS NO	TITLE	Product Manuals
No.			
1	IS 1000: 2021	Edible Lactose – Specification (second revision)	https://www.bis.gov.in/wp- content/uploads/2019/05/PM-IS-10001.pdf
2	IS 1165: 2002	Milk Powder – Specification (<i>fifth revision</i>)	https://www.bis.gov.in/wp- content/uploads/2020/09/PM-IS-1165.pdf
3	IS 1166: 1986	Specification for Condensed Milk, Partly Skimmed and Skimmed Condensed Milk (second revision)	https://www.bis.gov.in/wp- content/uploads/2019/11/PM_IS_1166.pdf
4	IS 1167: 1965	Edible Casein Products – Specification (second revision)	Product Manual under preparation
5	IS 1656: 2007	Milk-CerealBasedComplementaryfoods –Specification(fourthrevision)	https://www.bis.gov.in/wp- content/uploads/2020/05/PM-1656-CMD-2.pdf
6	IS 1806: 2018	Malted Milk Foods – Specification (second revision)	https://www.bis.gov.in/wp- content/uploads/2020/05/PM-1806-1.pdf
7	IS 2785: 1979	Specification for Natural Cheese (Hard Variety), Processed Cheese, Processed Cheese Spread and Soft Cheese (<i>first</i> <i>revision</i>)	https://www.bis.gov.in/wp- content/uploads/2020/06/PM-IS-2785.pdf
8	IS 2802: 1964	Specification for Ice-cream	https://www.bis.gov.in/wp- content/uploads/2019/05/ICE-CREAM.pdf
9	IS 4079: 1967	Specification for Canned Rasogolla	Product Manual under preparation
10	IS 4238: 2020	Sterilized and Ultra High temperature Sterilized Milk – Specification (<i>first</i> <i>revision</i>)	Product Manual under preparation
11	IS 4709: 2021	Flavoured Milk – Specification (<i>first revision</i>)	Product Manual under preparation
12	IS 4883: 1980	Specification for <i>Khoa</i> (first revision)	Product Manual under preparation
13	IS 4884: 2021	Sterilized/ UHT Sterilized Cream – Specification (<i>first revision</i>)	Product Manual under preparation
14	IS 5162: 2021	Chhana – Specification (second revision)	Product Manual under preparation
15	IS 5550: 1970	Specification for Burfi	Product Manual under preparation
16	IS 7839: 1975	Specification for Dried Ice- cream Mix	Product Manual under preparation
17	IS 9532: 1980	Specification for <i>Chakka</i> and <i>Shrikhand</i>	https://www.bis.gov.in/wp- content/uploads/2020/06/PM-IS-9532.pdf
18	IS 9584: 1980	Specification for Cheese Powder	Product Manual under preparation

19	IS 9617: 1980	Specification for Dahi	Product Manual under preparation
20	IS 10484 : 2021	Paneer – Specification (first revision)	Product Manual under preparation
21	IS 10501 : 1983	Specification for Kulfi	https://www.bis.gov.in/wp- content/uploads/2020/04/PM-IS-11501-1-April- 2020.pdf
22	IS 11602 : 1986	Specification for Packed Gulab Jamuns	Product Manual under preparation
23	IS 12176 : 1987	Specification for Sweetened Ultra High Temperature (UHT) Treated Condensed Milk	Product Manual under preparation
24	IS 12299 : 2021	Dairy Whitener – Specification (second revision)	https://www.bis.gov.in/wp- content/uploads/2021/07/PM_IS_12299_July_2021.pdf
25	IS 12898 : 1989	Dairy Products – Yoghurt– Specification	Product Manual under preparation
26	IS 13334 : Part 1 : 2014	Skimmed Milk Powder – Specification Part 1 Standard Grade (second revision)	https://www.bis.gov.in/wp- content/uploads/2020/09/PM-for-IS-13334-Part-1.pdf
27	IS 13334 : Part 2 : 2014	Skimmed Milk Powder – Specification Part 2 Extra Grade (<i>first revision</i>)	https://www.bis.gov.in/wp- content/uploads/2020/05/PM-13334-Pt-2.pdf
28	IS 13688 : 2020	Packaged Pasteurized Milk – Specification (second revision)	https://www.bis.gov.in/wp- content/uploads/2020/12/PM_IS_13688_01012021.pdf
29	IS 13689 : 2021	Butter Oil and Anhydrous Butter Oil – Specification (<i>first revision</i>)	Product Manual under preparation
30	IS 13690 : 2021	Butter – Specification (<i>first</i> revision)	Product Manual under preparation
31	IS 14433 : 2007	Infant Milk Substitutes – Specification (<i>first revision</i>)	https://www.bis.gov.in/wp- content/uploads/2020/06/Revised-PM-for-IS- 14433.pdf
32	IS 14542 : 1998	Partly Skimmed Milk Powder – Specification	https://www.bis.gov.in/wp- content/uploads/2019/06/Product-Manual-IS- 14542.pdf
33	IS 15757 : 2007	Follow-up Formula - Complementary Foods – Specification	https://www.bis.gov.in/wp- content/uploads/2020/06/Revised-PM-IS-15757.pdf
34	IS 16326 : 2015	Ghee – Specification	Product Manual under preparation

Note: All efforts have been made to incorporate details as per the latest version of the standard. However, as the standards are dynamic and subject to amendments and revisions, users are encouraged to check the latest versions of the standards subsequent to issuance of this scheme, before using the information contained therein. Other Indian Standards referred in the scheme:

IS 2491	Food Hygiene- General Principles- Code of Practice	
IS 4251	Quality tolerances for water for processed food industry)	
IS 7005	Code for hygienic conditions for Production, Processing, Transportation and	
	Distribution of milk.	
IS 10500	Drinking Water- Specifications	
IS/ISO 22000	Food Safety Management Systems- Requirements for organizations in the food chain	
	chain	

ANNEX- II

PROCESS REQUIREMENTS

A. Milk production, and collection /handling of raw milk

1. Primary Production Holding

The quality and food safety aspects of raw milk are influenced by a number of factors such as – nutrition, management, health status of milch animal, environment etc. Therefore, it is necessary that proper care is taken at the primary production holding for Good Manufacturing Practices (GMP), Good Hygienic Practices (GHP) and the guidelines and procedures prescribed by the Codex as per "Code of Hygienic Practice for Milk and Milk Products" are effectively followed.

The processing unit should be in a position to exercise effective control on the primary production holding to ensure that the quality and food safety aspects of the raw milk are taken care. The unit should arrange for providing training to milk producers to follow recommended practices for milch animal upkeep and adopting hygienic practices and records of such trainings shall be maintained properly.

In addition, the unit should undertake periodic audit of primary production holdings to ensure that the recommended hygienic practices are followed.

2. Collection and transportation of raw milk to processing unit

As Raw Milk is highly perishable in nature; care should be taken during milk collection, storage and transportation to the processing unit so that the quality and food safety of milk are not compromised.

i. At village collection level

The care to be taken at the village level collection centre to include:

- a. Proper location, building quality so as to prevent contamination from chemicals, insect/pest, biological and other hazardous substances.
- b. Use of proper milk collection equipment preferably from SS (as per AISI 304 grade).
- c. Proper cleaning and sanitation of milk storage vessels (cans).
- d. The practical (as far as possible) arrangements for cooling the milk including use of suitable technologies (BMCs).
- e. Proper personal hygiene and cleaning /sanitation protocol at the centre.

ii. Transportation of milk to milk processing unit

The transportation of raw milk to processing unit shall be done in clean vehicle/insulated milk tanker to avoid any chemical/biological contamination of the raw milk. Adequate precautions also need to be taken to ensure that integrity of milk is maintained.

B. Processing unit

3. Location and Surroundings

- i. The establishment shall be so located that neighboring buildings or operation and land use present no source of potential contamination for the hygienic operation of the facility. The establishment shall be located in an area away from objectionable odours, smoke, dust, other contaminants including flooding; or near-by slaughter houses.
- ii. The surrounding shall be reasonably free from objectionable odours, smokes, dust and other contaminants. The establishment shall be reasonably away from sewage treatment plants, sewage pump stations, cemeteries, cement factories and or other chemical factories.
- iii. The premises shall be kept clean and roads in the premises shall be concreted / tarred or turfed to prevent windblown dust, formation of soil and water mix.
- iv. There shall not be any stagnant water or signs of any rodent harbourage inside the premises.

4. Constructions and Layout of building of Plant

- i. The establishment shall be housed in a building of permanent nature affording sufficient protection from the environment and shall be of sufficient size for the work to be carried out under hygienic conditions.
- ii. The design and layout shall be such as to preclude contamination.
- iii. The layout of different sections shall be such as to facilitate smooth and orderly flow of work and to prevent possible cross contamination and backtracking. All the milk products handling areas shall be separate from areas used for residential purpose.
- iv. There shall be adequate lighting and ventilation and light fixtures shall be protected with proper covering.
- v. The layout shall ensure sufficient space in different sections for machinery, equipment, personnel etc. without congestion.
- vi. The building shall provide sufficient protection against the entry and harbourage of rodent, insects, milch animals, other animals etc.
- vii. All the entry points shall have suitable air curtains or other suitable arrangements to prevent the entry of flies.
- viii. Non-operative areas inside the establishment shall be properly cordoned off to avoid possible cross- contamination.

5. Hard Park for receipt of vehicles for milk delivery by cans/other vehicles

The hard park area should not be 'kachha' but properly cemented and should have proper slope and arrangements for drainage which does not cause contamination of raw milk, finished products etc.

6. Milk receiving section

i. There shall be a raised platform for receiving the material and the sides and roof of the platform shall be so constructed to provide protection from extraneous contamination.

- ii. The outside of the platform should be provided with sufficient protection to avoid vehicles hitting the platform and damaging.
- iii. The raw milk receiving section shall be sufficiently separated from processing area to prevent contamination.
- iv. Signboards directing the employees to wash and sanitise hands before entering and after each absence shall be installed.
- v. Air curtains/fly killers shall be installed to prevent the entry of flies when the door is opened.

7. Tanker Cleaning infrastructure

The unit should have proper infrastructure for:

- a. There shall be proper arrangement for tanker cleaning. Tanker bay with CIP facility is required.
- b. Cleaning and sanitation of the tanker including milk contact surface of barrel, hose pipe, pump etc. after unloading of milk.

8. Floors, walls and Ceiling

- i. The floor of the processing areas shall be smooth, impermeable and easy to clean and disinfect. There shall be no water stagnation on the floor. The floor shall have sufficient slope opposite to the flow of work or sideways.
- ii. The wall to floor and wall-to-wall junctions shall be rounded off to facilitate easy cleaning.
- iii. The walls should be durable, smooth, light coloured and easy to clean and disinfect. The walls should preferably have glazed tiles/ other tiles up to a height of minimum six feet.
- iv. The walls should not have projections and the entire fitting on the wall shall be made in such a way so as to clean and disinfect them easily. If possible, the electric switches or other fittings shall be fixed in areas where no handling of milk product is carried out.
- v. The walls and pillars should be suitably protected (by SS ring/cladding) to prevent damage by equipment hitting these.
- vi. The ceiling shall be free from cracks and open joints and shall be smooth and easy to clean.
- vii. If structural elements or fittings are suspended below the ceiling, suitable protection shall be given to prevent falling of debris, dust or bird dropping.

9. Doors, Windows, Ventilators, Stars, Platforms and Stands

- i. All the doors shall be tight fitting and the windows and ventilators shall have fly proofing nets to prevent the entry of flies.
- ii. All doors and windows shall be durable and made of corrosion resistant material and windowsills, if any, shall slope inwards. The windows/ ventilators shall be constructed at least one meter above the floor.
- iii. The doors shall be of self-closing type.
- iv. Open windows are not permitted in areas where food is exposed, processed or packed.
- v. Mechanical ventilation/ exhaust fans shall be provided in areas were stagnation

of air, condensation of fluid etc. are present.

- vi. The opening of ventilation/ exhaust fan shall be provided with suitable fly proofing system.
- vii. Stairs, catwalks, platforms, stands, ladders and the like in processing areas shall be of a construction and material that is impervious, non- corroding, easy to clean and impact resistant. These should be situated and constructed so as not to cause contamination of food processing areas, equipment and product by allowing potential contaminants falling onto them.

10. Drainage

- i. There shall be adequate drainage facility and slope of the drainage shall be opposite to the flow of work/material.
- ii. The open end of the drainage shall be protected against the entry of rodents.
- iii. The drains shall be of adequate size having sufficient slope for easy cleaning.
- iv. All drains shall:
 - be provided with Amul type trap
 - ➢ have adequate access for cleaning
 - > Where necessary, be adequately vented to the exterior of the building.
- v. Floor drains shall not be connected to drains from toilets.
- vi. Floor drains should not be connected to the storm or rain water drainage system. Where this occurs, they shall be designed and maintained in a manner to ensure that flooding of the premises cannot occur due to back-flow.

11. Tables, Utensils, Equipment's & Machineries

- All the utensils and equipment shall be made of non-corrosive material (SS as per ISI 304) and shall be smooth without cracks and crevices and easy to clean and disinfect.
- ii. All food contact surfaces shall be free from rust and paints.
- iii. Suitable arrangements shall be made to drain the water from the tables directly into the drainage without falling on the floor.
- iv. Freezing equipment shall be suitable to freeze milk products and shall achieve the required core temperature within the stipulated time. The equipment shall be fitted with necessary gauges to indicate the temperature, pressure etc. The recording devices shall be calibrated at specified intervals.
- v. Pasteurizers of suitable capacity having capability to maintain required temperatures and time shall be provided with automatic calibrated temperature devices.
- vi. Milk products store rooms shall be clean having smooth floor, walls and roof and shall have suitable mechanism to control the temperature, if required.
- vii. Spray drying facility shall be equipped with approved air filters.

12. Chill Rooms, Cold Storages, Tunnel and Deep freezers

i. Chill rooms/storage tanks/silos having adequate size with mechanical refrigeration system to maintain temperature at the required level (0°C to 4°C) shall be provided in the processing section or outside.

- ii. The cold storage/tunnel and Deep freezers shall have suitable refrigeration system to maintain the required product
- iii. temperature.
- iv. The floor, ceiling and walls of the cold storage and other storage rooms shall be smooth and easy to clean and disinfect.
- v. Proper steps shall be taken to avoid contamination of the materials stored.
- vi. There shall be adequate lighting with protective covers.

13. Change Rooms and Toilets

- i. Adequate number of change rooms for workers shall be provided for high risk and low risk areas.
- ii. The change rooms shall be of adequate size having smooth washable walls and floors.
- iii. There shall be flush lavatory and the lavatories shall not open directly to the working area.
- iv. The change rooms shall have foot-operated washbasins provided with adequate soap and single use towels. There shall be a foot operated waste bin to collect the used towels.
- v. There shall be lockable cupboards and facility for keeping gumboots, shoes and chapels inside the change room.
- vi. Suitable arrangements shall be made by the establishment to launder the working clothes of the workers.
- vii. The toilets shall have self-closing doors and proper fly proofing system.
- viii. Toilets and toilet area should be adjacent but separate from change room and at the same time shall be integrated with the processing facility but completely separated from handling areas and not open directly onto these areas. These should be
 - designed to ensure hygiene removal of waste matter
 - well lit, ventilated and maintained clean at all times.
 - a. The number of toilet bowls to be provided is as follow: No. of

persons	No. of bowls
1 to 9	1
10 to 24	2
25 to 49	3
50 to 100	5
For each additional 30 persons excess of 100 persons)	1 (additional bowl) (in

- ix. In male toilets, urinals can substitute for toilet bowls for up to 1/3rd of the total toilets required.
- x. Entrance to toilets from processing areas shall be either through an intervening change room or an airlock that is vented to external air.
- xi. Doors for toilet cubicles where they are not in a separate toilet room must be self-closing and tight fitting.

14. Workers entry points

- i. Suitable washing and sanitizing facilities for feet and hands shall be provided at the entry points.
- ii. The washbasins shall be provided with foot operable taps or non-hand operable taps.
- iii. Liquid soaps, disinfectants, single use towels / hand dryers etc. shall be provided in sufficient quantities at all entry points.
- iv. Waste bins provided for collecting used towels shall be of foot- operated type.

15. Store rooms

- i. There shall be separate stores for wet and dry items and the chemicals/ disinfectants should be properly labelled.
- ii. Packing material store shall be of adequate size with proper fly and dust proofing system.
- iii. Cartons shall be kept on cleanable pallets other than wood, away from the walls and covered properly. There shall be enough space for a person to walk around.
- iv. Pest and rodent control measures shall also extend to the storerooms.

16. Water

- i. Water used in the factory shall be of potable nature and shall meet statutory requirements as applicable (IS: 4251 and/or IS: 10500).
- ii. Potable water shall be used also for cleaning utensils, machinery, tables etc.
- iii. A suitable water management system shall be followed and this shall include use of plumbing diagrams showing the entire reticulation of the water, identifying each tap with consecutive numbers.
- iv. Water store tank, both ground level and overhead, should be well protected and cleaned regularly.
- v. The taps having hose connections shall be fitted with non- return valves.
- vi. The water tanks shall be cleaned regularly as per SOP as per pre-decided frequency.
- vii. If water is brought from external source i.e. mobile water tankers, it should be cleaned and disinfected periodically.

17. In-house laboratory

- i. The establishment shall have a well-equipped in-house laboratory for testing microbiological and other chemical parameters.
- ii. The testing shall be done by qualified and trained lab persons/veterinarian/ technologist (s) (Refer Annexure- 3 for Assessment of Manpower).

18. Transportation facilities

i. The establishment shall have suitable and adequate facilities for the transportation of raw material, finished products etc.

- ii. The food contact surfaces of the vehicles shall be made of non-corrosive material (Stainless Steel as per AISI 304); it shall be smooth, and easy to clean and disinfect.
- iii. Vehicles shall be maintained properly and records maintained thereof.

19. Retail outlets

The area around self-owned/operated retail outlets shall be clean and free from filth, dust etc. (as per Section 1 above)

20. General Maintenance of Facilities

- i. Buildings vessels, equipment, utensils, refrigeration and all other facilities of a processing including drains shall be kept in good repair in a clean and orderly condition.
- ii. Repairs shall be carried out as soon as possible without interference to handling and processing.
- iii. In case of major repairs and or maintenance, which may affect the safety or contaminate the product, production shall be stopped so as carry out the repairs and or maintenance.
- iv. There shall be a documented procedure for maintenance of all sections, equipment, machineries etc.
- v. The machineries/ equipment's shall be marked with suitable identification numbers.
- vi. The building should be whitewashed regularly as per the schedule.

21. Cleaning and Sanitizing

- i. All chemical compounds used as cleaners, sanitizers, soaps, detergents, shall be of standard make.
- ii. Cleaning should be carried out immediately after the end of work for the day or at such times as may be appropriate/ documented to maintain hygienic conditions, floors including drains and additional structures, processing equipments and wall of food handling areas must be thoroughly cleaned.
- iii. To prevent the contamination of food equipments, utensils and food contact surfaces shall be cleaned as frequently as necessary as per the documented procedures.
- iv. These should be sanitized when there is a risk of contamination but not less than daily.
- v. Food contact surface must be adequately rinsed after the use of any detergents prior to handling of the food.
- vi. Adequate precautions shall be taken to prevent food from being contaminated during cleaning or sanitizing of rooms, equipment or utensils.
- vii. Detergents and sanitizers shall be suitable for use in food handling areas and not impart any flavours, odours or leave toxic residues.
- viii. Detergent and sanitizers shall be diluted for use according to the manufacturer's instructions.
- ix. Cleaning personnel shall be trained in handling and use of cleaning without cross-contaminating the products and or food contact surfaces.

x. Staff change room, shower room, toilets and cafeteria, shall be kept clean at all times.

22. Hygiene Control Program

- i. A documented predetermined cleaning and sanitation program shall be in place at each facility.
- ii. All cleaning personnel shall be suitably trained in cleaning and sanitizing techniques.
- iii. All cleaning operations shall be carried out under the adequate supervision of designated personnel.
- iv. All cleaning and sanitation procedures shall be monitored, verified and records maintained.
- v. Monitoring effectiveness: Cleaning and Sanitation system should be monitored daily/as per schedule for effectiveness, periodically verified by means such as audit, preparation inspections or where appropriate microbiological testing of environment and food contact surfaces and regularly reviewed and adapted to reflect change circumstances

23. Personal Hygiene

vi.

- i. Unhygienic behaviour that can result in the contamination of food products such as chewing, eating, spitting, scratching of body parts with hands, putting fingers in nostrils, ears etc. shall be avoided inside the facility, specifically in processing/product manufacturing and handling area.
- ii. A person shall be made responsible for maintenance of personal hygiene and health status of the workers.
- iii. The employees engaged in processing activities shall be free from communicable diseases, open sores and wounds.
- iv. They shall be medically examined periodically and unit shall maintain individual health cards issued by an approved medical officer showing that they are fit to handle food products and suitable to work in milk processing plant.
- v. Smoking should be strictly prohibited in the entire premises including office area.
 - All personnel shall wash and sanitize their hands:
 - a) prior to entering the processing areas
 - b) immediately after using toilet
 - c) after handling dirty or contaminated materials
 - d) after undertaking cleaning procedures involving handling of sanitizers and similar cleaning chemicals
 - e) after handling food, ingredients and items used in food handling immediately after handling any material that may be capable of transmitting contaminants.
 - vii. Prophylactic injections shall be administered to the employees and record maintained thereof.
 - viii. Communicable diseases in their homes shall also to be notified and the employee shall be medically examined after each absence due to illness.

ix. All workers shall be provided with sufficient sets of clean work dress and headgears.

24. Inedible By-products and Materials

- i. Inedible by products shall:
 - a) be stored so as to avoid contaminating food for human consumption
 - b) be removed from the food preparation area as often as necessary to avoid cross contamination
- ii. All equipment used for the disposal, storage and treatment of wastes or inedible material shall be clearly identified, stored separately and not used for edible material.
- iii. Cleaning and sanitizing of utilities and equipment for in- edible materials shall be carried out in a physically separate area.

25. Storage and Disposal of Waste

- i. Provision shall be made for the storage of waste and inedible material prior to the removal of waste from the factory.
- ii. Waste storage facilities shall be:
 - a) away from the processing area
 - b) designed to prevent access to waste by pests
 - c) designed to avoid contamination of food, potable water and equipment's.
- iii. Waste shall be removed from food handling areas and other facilities either at the end of the shift or when the containers are full.
- iv. Immediately after the disposal of waste, receptacles used for the storage and any equipment which has come into contact with the waste shall be cleaned and sanitized.
- v. The waste storage area shall be kept clean.
- vi. All waste disposal bins shall be foot operated with tight-fitting lids.
- vii. The storage and handling of waste shall be as per Pollution Control Board (PCB) norms.

26. Pest Control

- i. There shall be a documented pest control and monitoring programme concentrating more on the prevention rather than eradication.
- ii. There shall be an effective and continuous schedule for the prevention, detection control and eradication of pests.
- iii. Pest control shall not constitute a hazard to human health and product safety.
- iv. Control measures involving treatment with chemicals shall only be undertaken by trained and competent personnel. Trained and competent personnel should

have complete understanding of the health hazards these chemicals may pose to the product and human.

- v. Accurate and legible records of the location and frequency of pest control measures shall be kept and made available to the Team for verification.
- vi. A bait map shall be kept and made available on request for verification.
- vii. Where pest control is entrusted with an outside professional agency or contractor, the effectiveness of the pest control program shall be monitored by responsible personnel in the facility and records shall be maintained for corrective action
- viii. / Preventive action in case of failures. The details of the inventory of the past control chemicals used by the pest control personnel shall be available for verification of their suitability and minimized and the hazard due to pest chemicals are under control.

27. Storage of Hazardous Substances

- i. Pesticides, cleaning agents or other substances which could represent a hazard to health and food shall be suitably labelled with a warning about their toxicity and use and care be taken to avoid the chemicals contaminating food, food contact surfaces and ingredients.
- ii. Hazardous substances shall be stored in rooms or cabinets used only for that purpose and handled only by authorized and properly trained persons.
- iii. Wet and dry chemicals shall be stored separately to avoid accidental mixing due to leakage or spillage.
- iv. No substances which could contaminate food may be used or stored in food handling areas or be stored with any product, ingredients or product packaging materials.
- v. The detergent/disinfectant in use inside the processing facility shall be located at a designated place and labelled legibly. The same shall not be stored in any food containers.

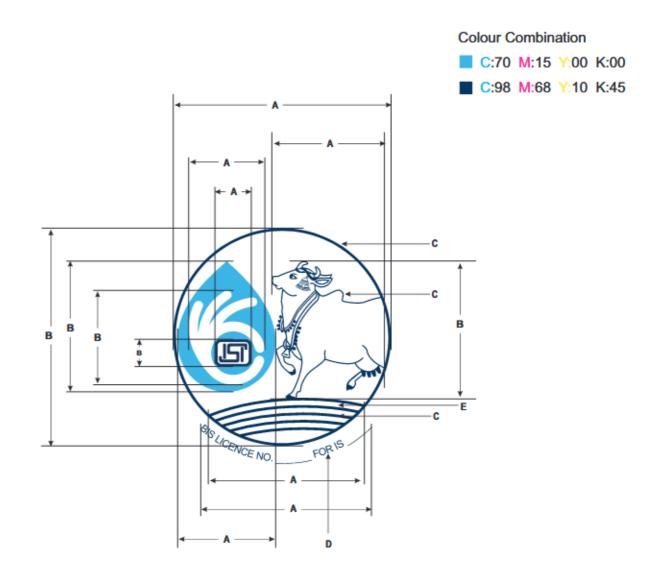
Note – Also see

IS 7005	Code for hygienic conditions for Production, Processing,
	Transportation and Distribution of milk.
IS 2491	Food Hygiene- General Principles- Code of Practice

This is for information only

Annexure III

STANDARD MARK FOR CERTIFICATION OF MILK AND MILK PRODUCTS



	A (Width)	B (Height)	C (Thickness)	D (Font & Size)	E (Gap between lines)
Main Circle	60mm	60mm	0.75mm	-	-
Blue drop	27mm	36mm	-	-	-
White hand	21mm	26mm	-	-	-
ISI Logo	10mm	7.5mm	-	-	-
Cow	31mm	38mm	0.3mm	-	-
Lines (bottom of cow)	43mm	-	0.75mm	-	1.3mm
Letters (bottom of circle)	47mm	-	-	Arial (Normal) 8 pts.	

Annex-IV

FEE STRUCTURE FOR CERTIFICATION SCHEME FOR MILK AND MILK PRODUCTS

1. Application fee

₹1,000/-

2. Audit Fee: (for initial, re-certification and special audit)

(a) For units located within India:

(i) Large Industrial Enterprises- ₹. 12,000/- per manday

(ii) Micro, Small and Medium Industrial Enterprises- ₹. 9,000/- per manday

Travel limited to a distance of 250 km from the location of the unit and stay of auditors on actual basis shall be borne by the manufacturer.

Relaxation in audit fee: If the Actual Travel Cost incurred during an audit is less, the DDGR's may grant relaxation upto \gtrless 4,000/- per manday spent in travelling for Large Industrial Enterprises and \gtrless 3,000/- per manday spent in travelling for MSME enterprises.

(b) For units located outside India:

(i) ₹ 12,000/-per manday shall be chargeable.

(ii) The manufacturer shall bear all expenses on actual basis, including but not limited to cost to the Bureau for the man-days spent by auditor(s) in connection with the audit, resultant travel etc.

3. Certification Fee

The yearly certification fee shall as specified in Table-A of this Annexure.

Table-A

Sr.	Product	Unit rate (in ₹)	Minimum	Minimum	Minimum
No.	category		certification fee	certification fee	certification
			large scale, per	Small and	fee Micro
			annum	Medium	Enterprises,
			(in ₹)	Enterprises, per	per annum
				annum	(in ₹)
				(in ₹)	
1.	Milk and	3 per 1,000 litre for first	1,00,000	80,000	60,000
	milk	4,00,000 kilo-litres and 2 per			
	products	1,000 litres thereafter.			
		(Liquid milk sold in case of			
		liquid milk and Raw milk			
		consumed in case of milk			
		based products.			

Note 1: – Classification of enterprises will be based on "The Micro, Small and Medium enterprises Development (MSMED) Act, 2006 (27 of 2006)."

Note 2: All the fees mentioned herein are exclusive of any taxes

ANNEX-V: CHECKLIST FOR STAGE 1 AUDIT

Name of Dairy Unit/ Organization: Address:

Date of Visit:

Sl. No.	Requirements	Observations (Satisfactory/ Needs improvement)	Remarks (briefly describe how requirement is met or not)
1	Raw Milk Procurement System		
1.1	Percentage of raw chilled milk coming from BMC set up either owned/controlled by the unit or by other organizations which follow the procurement system duly audited and certified by the unit.	Above 50% = 3 30-50% = 2 Less Than 30% = 1	
1.2	MBRT of incoming raw milk	more than 90 min = 3 60 - 90 min = 2 less than 60 min = 1	
2	Processing Infrastructure and its Management		
2.1	Does the unit have proper infrastructure / manufacturing machinery	Satisfactory-3 Needs Improvement- 1	
2.2	Are there adequate number of qualified and trained personnel	As given below	
2.3	Verification of hygienic condition	Satisfactory-3 Needs Improvement- 1	
3	Laboratory Infrastructure and its Management		
3.1	Does the unit have laboratory setup/ arrangement for testing milk and milk products as per relevant Indian Standards under the scope of this certification	Satisfactory-3 Needs Improvement- 1	
3.2	Adequate number of trained and qualified manpower employed for the laboratory operation	As given below	
3.3	Whether liquid milk is being distributed/sold through insulated vehicles	Satisfactory-3 Needs Improvement- 1	
3.4	Failure of products samples of the unit tested by food regulator in last one Year	Nil Failure- 3 1 or more failure- 0	
4	Conformity to relevant Indian Standards		
4.1	Availability of Inspection and testing plan for each product*	Satisfactory-3 Unsatisfactory-0	
4.2	Evidence of conformity of milk and milk products to relevant Indian Standards*	Satisfactory-3 Unsatisfactory-0	
5	Conformity to Food Safety Management	Satisfactory-3	Attach Stage I

Systems	Needs Improvement-	audit report
	1	

Assessment of Manpower The desirable qualification and experience of the manpower should be as under:

S. No.	Designation	Qualification	Marks
1	Plant manager and next in the line below (top two/three levels)	 A. Minimum B Sc/ B Tech. (Dairy Technology) with minimum 8 years' experience in dairy Plant/ IDD with 15 years of experience in dairy Plant. B. Minimum M Sc/ M Tech in Dairy Technology/ Dairy Chemistry/ Dairy Microbiology ; or M Tech / ME in Food Technology with at least five years of experience in Dairy Units. C. Minimum B Sc/ B Tech (Dairy Technology) with minimum 4 years' experience in dairy Plant. D. Other qualification such as B Sc / M Sc Science, Agriculture (with Dairy technology as one of subjects), with or without experience/ or otherwise experienced senior managers. 	If A and $B = 3$ If C and $D = 2$
2	Laboratory In- charge and next level (two top levels). The Number of manpower shall depend upon level of automation etc. details to be provided.	 A. M. Sc/ M tech in Dairy /Food Technology, Dairy / Food Chemistry Dairy / Food Microbiology with minimum 3 years' experience in dairy sector. B. B Tech in Dairy / Food Technology or M Sc Microbiology / Chemistry / Biotechnology with minimum 5 years' experience in dairy sector/ IDD with 15 years of experience in dairy. C. B Sc (Microbiology /Biotech/Chemistry / Biology) and with 7 years' experience in dairy sector and with proper training at a reputed organization in field of dairy lab training Tech in Dairy / food Technology 	If A and $B = 3$ If C = 2

Selection criteria for Stage 2 audit

Sr No.	Assessment Score	Whether cleared Stage 1 and recommended for Stage 2 audit
1	Unit scores min. 70 % marks in Checklist for Stage 1 audit; and Milk and milk products conform to relevant Indian Standards; and No non-conformities raised in FSMS	Yes
2	Unit scores 60 to 70 % marks in Checklist for Stage 1 audit; and Milk and milk products conform to relevant Indian Standards; and Major/ Minor non-conformities raised in FSMS	Yes, subject to unit giving assurance for improvement up to 70% marks by the time inspection takes place.
3	Unit scores less than 60 % marks in Process requirements for Stage 1 audit; and/or Product not conforming to the relevant Indian Standards.	No

The application will be processed for Stage 2 audit in case it conforms to the following guidelines:

Note-1: In case of units handing less than one lakh litres of milk per day (and having small milk procurement area) and which do not have BMC or chilling centre, the marks for Clause nos. 1.1 shall not be considered for calculation of percentage of marks.

ANNEX-VI: CHECKLIST FOR STAGE 2 AUDIT

ANNEX-VIA: FORMAT FOR MILK COLLECTION CENTRES/ COOPERATIVE SOCIETY

Name of the Centre/ Society:

Address/ Location:

Date of Visit:

FSSAI registration no. & Year of inception Present milk procurement per day Avg. Milk Fat and SNF Milk Collection timing: Morning & Evening

CL No.	Deceriment	Catagory	Satisfactory/	Remarks (briefly describe how requirement is met
51. INO. 1.0	Requirement Location & Surroundings	Category	Unsatisfactory)	or not)
1.0	Are surroundings clean, free from waste,			
	water logging etc.	Major		
2.0	Infrastructure and facility	5		
2.1	Is the facility having pucca building and			
	maintained in good condition	Major		
2.2	Is housekeeping and cleaning satisfactory	Major		
2.3	Is floor maintained neat and clean	Major		
2.4	Are adequate milk accessories available?	Minor		
2.5	Is sufficient washing facility available for cans, utensils, sampling & testing accessories	Major		
2.6	Is there adequate natural and/ or artificial lighting, covered and at appropriate location	Major		
3.0	Practices			
3.1	Is milk collection timing displayed	Minor		
3.2		Major		
3.3	Are milk vessels bringing by producers properly covered	Major		
3.4	Is any foreign matter (flies, straw, dung etc.) present in raw milk coming to the DCS	Critical		
3.5	Is milk filtered properly through strainer	Critical		
3.6	Is milk tested for presence of any adulterants	Critical		
3.7		Minor		
3.8	Are personal Hygiene practices followed at DCS	Major		
3.9	Are the milk handlers free from cuts/wounds on their hands	Major		
3.10	Is the tester is trained on analysis	Major		
3.11		Major		
3.12	Are cattle feed being stored in separate rooms	Minor		

Sl No	Parameter	Total Points	Compliance	% Compliance	Remark
1	Critical	3			
2	Major	12			
3	Minor	4			
		19			

ANNEX-VI: CHECKLIST FOR STAGE 2 AUDIT

ANNEX-VI B: FORMAT FOR BULK MILK COOLING CENTRE (BMC)

Name of BMC:

BMC's Location / Address:

DATE OF VISIT:

S.	
No.	General Information
1	BMC FSSAI registration/ License no.
2	Unit ISO Certification, if applicable
3	Number and Capacity of BMC
	Single village-based BMC or cluster
4	BMC
5	If Cluster, how many DCS attached
6	Present milk procurement per day
7	Average Milk Fat and SNF

				Remarks (briefly
			Observations	describe how
			(Satisfactory/	requirement is met
S. No	Requirement	Category	Unsatisfactory)	or not)
1.0	Infrastructure & facilities	caregory	(11,5001,5100001 j)	
1.1	Is BMC unit located away from			
	environmental contaminants (e.g. smoke,			
	objectionable odor etc.)	Major		
1.2	Are the premises of the unit neat, clean			
	and free / away from garbage or waste	Critical		
1.3	Is BMC center have pucca building,			
	maintained in a sound condition and free			
	from cobwebs, seepage	Major		
1.4	Are windows/ other opening properly			
	covered with wire mesh of appropriate			
	size	Major		
1.5	Are floors pucca and maintained in a			
	sound condition, without damages, pot			
	holes with accumulated water or water			
	milk mix	Major		
1.6	Is there adequate space inside BMC			
	room for performing routine operation			
	and maintenance	Major		
1.7	Does the unit have adequate quantity of			
	hot water for cleaning	Major		
1.8	Whether soak-pit for discharge of waste			
	water available with the unit.	Major		
1.9	Is adequate source of water available.	Major		
1.10	Do the Centre has adequate natural and/			
	or artificial lighting, covered and at			
	appropriate location	Major		
2.0 2.1	Operation/ Practice			
2.1	Is milk collection timing displayed and			
	followed	Minor		

2.2 is milk collection completed within 2 hrs at BMC and within 3 hrs for cluster BMC Major 2.3 Are producers bringing milk in Stainless steel Major 2.4 Are milk vessels bringing by producers properly covered Major 2.5 Is any foreign matter (flies, straw, dung etc.) present in raw milk coming to the centre Critical 2.6 Is milk filtered before loading to BMC tank Critical 2.7 Is milk chilled at desired temperature (4 °C), if yes whether maintained records for temperature of problems identified during internal monitoring visit Major 2.8 Is appropriate remedial action taken when informed of problems identified diring insteral monitoring visit Major 2.9 Is standard operating procedure for cleaning at gents available and effectively used Critical 2.10 Is BMC tank available and effectively used major Critical 2.11 Are other milk collection accessories (weighing scale, sampling bottles, plunger etc.) properly cleaned Major 2.13 Are other milk collection accessories (weighing scale, sampling bottles, plunger etc.) properly cleaned Major 2.14 Are tube feed being stored in separate rooms Major Major 2.14 Are dubetration?Such as No Smoking & No spitting <th></th> <th></th> <th></th>			
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4.3 Are personal Hygiene practices followed at DCS Major	4.2		
at DCS Major			Major
	4.3		
4.4 Are the milk handlers free from Major			
	4.4	Are the milk handlers free from	Major

cuts/wounds on their hands		

Sl No	Parameter	Total Points	Compliance	% Compliance	Remark
1	Critical	7			
2	Major	23			
3	Minor	5			
		35			

ANNEX-VI: CHECKLIST FOR STAGE 2 AUDIT

ANNEX-VI C: FORMAT FOR MILK CHILLING CENTRE (MCC)

Name of Milk Union/ Unit: Name of MCC:

Address of the MCC: Date of Inspection /Assessment:

S. No.	General Information	Remarks
1	Year of Inception	
2	MCC FSSAI registration/	
	License no.	
3	Unit ISO Certification, if	
	applicable	
4	Capacity of MCC	
5	DCS/MPP attached	
6	Present milk procurement per	
	day	
7	Average Milk Fat and SNF	

Sl. No.	Requirement	Category	Observations (Satisfactory/ Unsatisfactory)	Remarks (briefly describe how requirement is met or not)
1.0	General Information about technical personnel	Major		
1.1	Are adequate number of staffs available in the Milk Chilling Centre One DT/IDD, Lab. Assistant, Maintenance etc.	Major		
2.0	Primary Production holding and			
2.1	raw milk collectionAre the surfaces of milk contactvessels/utensils used byfarmer/producer to bring milk toMCC washable and non-toxic(preferably SS – AISI 304)	Major		
2.2	Are the samples of water drawn for testing /analysis to ascertain safety to human health and records maintained.	Major		
2.3	Is there adequate protection from contamination from pests /insects /animals /environment at MCC	Major		
2.4	Do persons performing / handling of raw milk wear suitable, clean clothes and maintain high degree of personal hygiene	Major		
2.5	Are there suitable facilities for cleaning/ washing of hands and collection equipment	Major		
3.0	Premises of MCC			

	1		
3.1	Is the premises boundary properly	Major	
	constructed to prevent entry of		
	animals etc		
3.2	Are roads -around the building-	Major	
	concreted or tarred or turfed		
3.3	Are the building premises free from	Critical	
	swamps, stagnated water, dumps		
3.4	Is the process building protected	Critical	
	from entry of animals, pets etc		
3.5	Is the building protected /away		
	from environmental contaminants		
	e.g., smoke, objectionable odours,		
	dust, etc	Critical	
3.6	Are the refuge collecting containers		
	of self-closing type and located at		
	strategic locations	Major	
4.0	Layout, design, construction,		
	location and size of MCC:		
4.1	Does it permit good food hygiene		
	practices, including pest control,		
	insect etc.	Critical	
4.2	Is it kept clean and maintained in good repair and condition	Major	
5.0	Lavatories/Toilets	11101	
5.1	Are there adequate number of flush lavatories available and connected		
0.1		Major	
5.2	to an effective drainage system Do the sanitary conveniences	1v1aj01	
5.2	Do the sanitary conveniences /toilets have adequate natural or mechanical ventilation		
		•	
6			
	Washing facilities		
6 6.1	Washing facilitiesAre there an adequate number of		
	Washing facilitiesAre there an adequate number of washbasins available, suitably		
	Washing facilitiesAre there an adequate number of washbasins available, suitably located and designated for cleaning	Maior	
6.1	Washing facilitiesAre there an adequate number of washbasins available, suitably located and designated for cleaning hands at entry points	Major	
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6.1	Washing facilitiesAre there an adequate number of washbasins available, suitably located and designated for cleaning hands at entry pointsAre the washbasins for cleaning hands provided with detergent, disinfectant, etc and for hygienic	Major	
6.1	Washing facilitiesAre there an adequate number of washbasins available, suitably located and designated for cleaning hands at entry pointsAre the washbasins for cleaning hands provided with detergent, disinfectant, etc and for hygienic drying e.g. dryers, single use		
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9	Building -General design and		
9	layout etc		
9.1	Does design and layout permit good	Major	
	food hygiene practices, including		
	protection against contamination		
	between and during operation		
9.2	Is the general working environment	Major	
	in MCC suitable for hygienic and		
	healthy operations - proper		
	temperature, free of suffocation,		
10.0	without congestion/ cramping		
10.0	Floors	Major	
10.1	Is material of construction proper –	Major	
	maintained in chilling area, CI tiles in reception etc		
10.2	Are the floors maintained in a	Major	
10.2	sound condition, without damages,	Major	
	pot holes with accumulated		
	water/water milk mix		
10.3	Is there water /water- milk mix	Major	
- 0.0	accumulated on the floor due to	1. mj 01	
	slope/ poor cleaning		
11	Walls		
11.1	Are the surfaces maintained in a		
	sound condition, free from		
	cobwebs, seepage	Critical	
11.2	Is surface impervious, non-		
	absorbent, washable and non-toxic		
	material or appropriate to prevent		
	contamination and does have a		
	smooth surface up to a height	N ·	
10	(approx. 6 feet)	Major	
12 12.1	Ceilings	Mojor	
12.1	Is pucca ceiling provided in the entire milk chilling area	Major	
12.2	Is the height of ceiling proper to	Major	
	allow hygienic operations and non-		
	suffocating operations		
12.3	Are the surfaces maintained in a		
	sound condition, free from		
	cobwebs, seepage, mould growth	Critical	
13	Windows /doors and other		
10.1	openings	Maire	
13.1	Are they constructed to prevent the accumulation of dirt	Major	
13.2	Are those, which can be opened to	Major	
13.4	the outside environment, where	1v1aj01	
	necessary, fitted with insect-proof		
	screens, which can be easily		
	removed for cleaning		
13.3	Are the doors easy to clean and,	Major	
	where necessary, to disinfect and	<u> </u>	
	have smooth and non-absorbent		
	surfaces or appropriate to prevent		
	contamination?		
14	Surfaces (including surfaces of		

	• • • • • • • • • • • • • • • • • • • •			·
	equipment)		i	<u> </u>
14.1	Are the outside surfaces of	Major		
	equipment, in general and in	ļ		
	particular those which are in contact	ļ		
	with milk/food, clean (free from	ļ		
4	dried milk marks/ dust etc).		i	ļ
14.2	Are these smooth, washable	Major		
	corrosion-resistant and non-toxic	ļ		
	materials or appropriate preferably	ļ		
	SS (AISI 304) to prevent	ļ		
1 5	contamination	ļ	łi	ļ
15	Cleaning / Sanitization facilities	Cuitic 1	i	ļ
15.1	Are adequate facilities provided,	Critical		
	where necessary, for the cleaning,	ļ		
	disinfecting of working utensils and	ļ		
15.2	equipment Are these facilities have an	Critical		ļ
13.2		Unical		
	adequate supply of hot and cold water	ļ	1	
15.3	water Are the cleaning agents and	Major	<u> </u> i	ļ
13.3	Are the cleaning agents and disinfectants stored separately	1*1ajUľ	1	
	disinfectants stored separately under lock and key	ļ	1	
15.4	Is the effectiveness of cleansing	Major		<u>├</u>
13.4	Is the effectiveness of cleansing (absence of residual chemical)	1*1ajUľ	1	
	(absence of residual chemical) verified periodically through	ļ	1	
	laboratory tests	ļ	1	
16	Raw Milk Reception	<u> </u>		
16.1	Is RMRD raised with sides and top	Major	i	
10.1	sufficiently protected to prevent			
	contamination while unloading of	ļ		
	raw milk	ļ		
16.2	Are air curtain / fly proof mesh	Major	1	
	provided to prevent entry of flies			
16.3	Are in-line filters for raw milk	Major	i	
	available	J		
16.4	Is the ceiling height (min 5.5 M) to	Major		
	prevent accumulation/condensation	5		
	of moisture	ļ	1	
16.5	Is there proper ventilation to	Major		
	prevent suffocation in the raw milk	Ť	1	
	reception area (can washer)			
16.6	Are can washing operations proper	Major		
	(If cans scrubber is used- are the	-	1	
	cans cleaned properly and if can	ļ	1	
	washer is used- are the cans cleaned	ļ		
	properly and coming out dry)	l	I	
17	Chilling Section			
17.1	Is milk being chilled and stored	Critical		
	below 4 ⁰ C and record kept	l		
18	Equipment			
18.1	Is the material of construction	Critical		
	proper for milk handling/processing	ļ		
ļ	(preferably SS 304/316)		ļ i	<u> </u>
18.2	Are the equipment kept in clean	Critical		
ļ!	state and properly sanitized.		ļi	
18.3	Are these provided with proper	Critical	<u> </u> _	

		T	I	T1
	recording instruments (temp			
	/pressure/ flow rate)			
18.4	Are the process control equipment	Critical		
	calibrated properly- proper records			
	kept			
19	Water			
19.1	Is proper record of quality of Water	Major		
	used for the processing kept			
19.2	If water obtained from external	Major		
	sources is tested/analysed and			
	documented for its potability			
19.3	Is water stored in over head storage	Major		
	tanks protected from outside			
	contamination			
19.4	Are such over head tanks easily	Major		
	accessible for cleaning; disinfection			
19.5	Is there Cleaning schedule for water			
	storage tanks/facilities available and			
	followed properly (by records)			
20	Effluent treatment systems			
20.1	Does the MCC have a working ETP	Observati		
20.2	Is capacity of ETP sufficient to take	on on		
	care of total load.	Effluent		
20.3	Does the discharged effluent	Treatmen		
	comply with the statutory	t System		
	requirements in force (BOD, COD,	must be		
	etc)	recorded		
00.1			· · · · · ·	
20.1	Is smell observed near the ETP			
20.1 21	Maintenance/Calibration			
21	Maintenance/Calibration schedules			
	Maintenance/Calibration schedules Is there a documented procedure for	Major		
21	Maintenance/CalibrationschedulesIs there a documented procedure forthe maintenance of different	Major		
21	Maintenance/Calibration schedules Is there a documented procedure for the maintenance of different sections of the dairy/ equipment/	Major		
21	Maintenance/CalibrationschedulesIs there a documented procedure forthe maintenance of differentsections of the dairy/ equipment/plant and machinery/ laboratory	Major		
21 21.1	Maintenance/Calibration schedules Is there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory items			
21	Maintenance/CalibrationschedulesIs there a documented procedure forthe maintenance of differentsections of the dairy/ equipment/plant and machinery/ laboratoryitemsIs there a documented procedure for	Major Major		
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21 21.1 21.2 22 22.1	Maintenance/Calibration schedulesIs there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory itemsIs there a documented procedure for the calibration of instruments/gauges/ in different sections i.e. Engineering, Processing and laboratoryQuality Assurance systems and Laboratory ProceduresAre the certified QA systems of ISO and HACCP/FSMS (ISO- HACCP - IS 15000/ ISO 22000/FSSC 22000) in placeAre the breakdowns /malfunctions/ Product failure recorded and proper	Major Minor		
21 21.1 21.2 22 22.1 22.2	Maintenance/Calibration schedules Is there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory items Is there a documented procedure for the calibration of instruments/gauges/ in different sections i.e. Engineering, Processing and laboratory Quality Assurance systems and Laboratory Procedures Are the certified QA systems of ISO and HACCP/FSMS (ISO- HACCP - IS 15000/ ISO 22000/FSSC 22000) in place Are the breakdowns /malfunctions/ Product failure recorded and proper traceability system in place	Major Minor Major		
21 21.1 21.2 22 22.1	Maintenance/Calibration schedules Is there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory items Is there a documented procedure for the calibration of instruments/gauges/ in different sections i.e. Engineering, Processing and laboratory Quality Assurance systems and Laboratory Procedures Are the certified QA systems of ISO and HACCP/FSMS (ISO- HACCP - IS 15000/ ISO 22000/FSSC 22000) in place Are the breakdowns /malfunctions/ Product failure recorded and proper traceability system in place Is there proper arrangement for pest	Major Minor		
21 21.1 21.2 22 22.1 22.2	Maintenance/Calibration schedulesIs there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory itemsIs there a documented procedure for the calibration of instruments/gauges/ in different sections i.e. Engineering, Processing and laboratoryQuality Assurance systems and Laboratory ProceduresAre the certified QA systems of ISO and HACCP/FSMS (ISO- HACCP - IS 15000/ ISO 22000/FSSC 22000) in placeAre the breakdowns /malfunctions/ Product failure recorded and proper traceability system in placeIs there proper arrangement for pest & vermin control and documented	Major Minor Major		
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21 21.1 21.2 22 22.1 22.2 22.3	Maintenance/Calibration schedules Is there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory items Is there a documented procedure for the calibration of instruments/gauges/ in different sections i.e. Engineering, Processing and laboratory Quality Assurance systems and Laboratory Procedures Are the certified QA systems of ISO and HACCP/FSMS (ISO- HACCP - IS 15000/ ISO 22000/FSSC 22000) in place Are the breakdowns /malfunctions/ Product failure recorded and proper traceability system in place Is there proper arrangement for pest & vermin control and documented procedure is maintained (either by self or through outside agency)?	Major Minor Major Critical		
21 21.1 21.2 22 22.1 22.2	Maintenance/Calibration schedulesIs there a documented procedure for the maintenance of different sections of the dairy/ equipment/ plant and machinery/ laboratory itemsIs there a documented procedure for the calibration of instruments/gauges/ in different sections i.e. Engineering, Processing and laboratoryQuality Assurance systems and Laboratory ProceduresAre the certified QA systems of ISO and HACCP/FSMS (ISO- HACCP - IS 15000/ ISO 22000/FSSC 22000) in placeAre the breakdowns /malfunctions/ Product failure recorded and proper traceability system in placeIs there proper arrangement for pest & vermin control and documented procedure is maintained (either by self or through outside agency)?	Major Minor Major		
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	area		
22.5	Are proper facilities there for chemical and MBRT analysis	Major	
22.6	Are personnel responsible for conducting microbiological and chemical analysis properly qualified/trained	Major	
22.7	Is proper testing done on as per the SOP	Major	
23	Demonstral health and hyprices		
23	Personnel health and hygiene		
23.1	Are the persons in milk process plant follow hygienic practices (as per the observation of team)	Major	
-	Are the persons in milk process plant follow hygienic practices (as	Major Major	

Sl No	Parameter	Total Points	Compliance	% Compliance	Remark
1	Critical	14			
2	Major	52			
3	Minor	5			
		71			

ANNEX-VI: CHECKLIST FOR STAGE 2 AUDIT

ANNEX-VI D: CHECKLIST FOR DAIRY UNIT

Name of Processing Establishment:

Address of the processing establishment: Date of Inspection /Assessment:

S.				
No.	General Information			
1	Year of Inception			
2	Milk union/ unit FSSAI License details			
3	Unit ISO Certification details			
4	Capacity of Milk Plant Present milk procurement/ handled per			
5	Present milk procurement/ handled per day			
6	Average Fat and SNF in incoming milk			
S. No.	Requirement	Category	Observations (Satisfactory/ Unsatisfactory)	Remarks (briefly describe how requirement is met or not)
1	General Information about technical			
	personnel			
1.1	Are adequate number of Technologists			
		Major		
1.2	Are adequate Number of Veterinarians available for handling quality and food safety aspects in Primary Production			
		Major		
1.3	Are personnel for developing, implementing and maintaining HACCP- based procedures adequately qualified and experienced.	Critical		
1.4	Are sufficient number of supervisors/persons available (apart from the above), responsible for processing and maintenance of sanitation and hygiene in the establishment separately.			
2	Primary Production holding and raw			
	milk collection			
2.1	Whether the establishment have records to support the backward traceability.	Critical		
2.2	Are training programme organized by union/unit / through external agency for producers for CMP etc at regular interval - supported by records/ documents	Critical		

2.3	Are effective steps taken by the unit		
	(education/training to producers) to		
	prevent use of prohibited		
	antibiotics/pharmacological substances		
	and Chemicals at the primary production		
	holdings.	Critical	
2.4	Are the samples (feed, water) drawn for		
	testing/analysis to ascertain safety to		
	human health and records maintained.	Major	
2.5	Is appropriate remedial action taken		
	when informed of problems identified		
	during audits/checks/routine monitoring		
	- supported by records	Major	
2.6	Are there suitable facilities for cleaning/		
	washing of hands and collection		
	equipment	Major	
3	Premises of Unit		
3.1	Is the premises boundary properly		
	constructed to prevent entry of animals		
	etc.	Major	
3.2	Are roads -around the building-		
	concreted or tarred or turfed?	Major	
3.3	Is the building premises free from		
	swamps, stagnated water, dumps?	Critical	
3.4	Is the process building protected from		
	entry of animals, pets etc	Critical	
3.5	Is the building protected /away from		
	environmental contaminants e.g., smoke,		
	objectionable odours, dust, etc.?	Critical	
3.6	Are the refuge collecting containers of		
	self-closing type and located at strategic		
	locations	Major	
4	Layout, design, construction, location		
	and size of processing premises:		
4.1	Does it permit good food hygiene		
	practices, including pest control, insect		
	etc	Critical	
4.2	Is it kept clean and maintained in good		
	repair and condition?	Major	
5	Lavatories/Toilets		
5.1	Are there adequate number of flush	Major	
	lavatories		
5.2	available and connected to an effective	Critical	
	drainage system?		
5.3	Do Exhaust and door of lavatories open	Major	
	directly into rooms in which food is		
	handled?		

5.4	Do the sanitary conveniences /toilets	Major
5.4	have adequate natural or mechanical	1410)01
	ventilation .	
5.5		Major
5.5	toilets etc to process hall or any food	iviujoi
	handling place to avoid entry of	
	contaminated air.	
6		
6 6.1	Washing facilities Are there an adequate number of	Major
0.1	1	Major
	washbasins available, suitably located	
	and designated for cleaning hands at all	
< 0	entry points to the food handling areas?	
6.2	Are the washbasins for cleaning hands	Major
	provided with detergent, disinfectant,	
	etc. and for hygienic drying e.g. dryers,	
	single use towels?	
6.3	Are foot disinfections facilities like foot	Major
	dip provided, wherever applicable?	
7	Ventilation and lighting	
7.1	Is there suitable and sufficient means of	
	natural or mechanical ventilation	
	(sufficient exhaust fans)?	Minor
7.2	Is there set up to prevent mechanical	
	airflow from a contaminated area /	
	external area to a clean area (process	
	halls)	Major
7.3	Are the ventilation systems so	
	constructed as to enable filters and other	
	parts requiring cleaning or replacement,	
	readily accessible?	Minor
7.4	Do the premises have adequate natural	
	and/or artificial lighting?	Minor
7.5	Are the lights sufficiently	
,	protected/covered?	Minor
8	Drainage facilities	
8.1	Are these designed and constructed to	
0.1	avoid the risk of contamination to the	
	food items	Major
8.2	Are drainage channels properly covered	
0.2	as needed?	Major
9	Change room facilities	
9.1		
7.1	Are adequate changing facilities (change	
	room and facilities therein), provided for	
	personnel handling raw material,	
	unprocessed products and processed	Critical
0.2	products?	Critical
9.2	Is there separate facility for male and	
	female workers?	Minor

9.3	Whether changing room facility is		
	properly located i.e., integrated into the		
	plant layout properly or if away whether		
	provided with pucca road to prevent		
	contamination from dust/dirt etc after		
	worker leaves change room and enters		
	process area.	Major	
9.4	Does the changing room have proper		
	facilities - smooth walls, floors and		
	washbasins with soaps, disposable		
	towels and non-hand operable taps?	Major	
9.5	Whether there are arrangements for	- ¥	
	Change of footwear, Keeping street		
	clothes separately, Lockable cupboards	Major	
9.6	Is there suitable in-house/outside		
	arrangement to launder the working		
	clothes of the workers?	Major	
10	Process Hall -General design and layout etc		
10.1	Does design and layout permit good food	l	
	hygiene practices, including protection		
	against contamination between and		
	during operations	Major	
10.2	Is the general working environment in		
	process hall/ packing rooms suitable for		
	hygienic and healthy operations - proper		
	temperature, free of suffocation, without		
	congestion/ cramping?	Major	
11	Floors		
11.1	Is material of construction proper -	Major	
	mandana in process area, CI tiles in		
	reception, kota stone / polycrete etc in		
	lab		
11.2	Are the floors maintained in a sound	Major	
	condition, without damages, pot holes		
	with accumulated water/water milk mix?		
11.3	Is there water /water- milk mix	Major	
	accumulated on the floor due to slope/		
	poor cleaning.		
12	Walls		
12.1	Are the surfaces maintained in a sound		
	condition, free from cobwebs, seepage	Critical	
12.2	Is surface impervious, non-absorbent,	Major	
	washable and non-toxic material or		
	appropriate to prevent contamination and		
	does have a smooth surface up to a		
	height (approx. 6 feet)?		

12.3	Are there suitable arrangements (SS	Major	
	railing/cladding) to protect damage to		
	walls by equipment and other items		
	(trolleys etc)		
13	Ceilings		
13.1	Is pucca ceiling provided in the entire	Major	
	milk processing area		
13.2	Is the height of ceiling proper to allow	Major	
	hygienic operations and non-suffocating		
	operations (approx5.5 mts)		
13.3	Are the surfaces maintained in a sound	Critical	
	condition, free from cobwebs, seepage,		
	mould growth		
14	Windows /doors and other openings		
14.1	Are those, which can be opened to the	Major	
	outside environment, where necessary,	Ū	
	fitted with insect- proof screens, which		
	can be easily removed for cleaning?		
14.2	Are, where open windows would result	Major	
	in contamination, kept closed during		
	production?		
14.3	Are the doors easy to clean and, where	Major	
	necessary, to disinfect and have smooth	5	
	and non-absorbent surfaces or		
	appropriate to prevent contamination?		
14.4	Are doors provided with automatic door	Major	
	closures	Ū	
14.5	Are the doors provided with suitable air	Major	
	curtain/other arrangements to prevent	-	
	entry of air when opened to prevent		
	contamination		
15	Surfaces (including surfaces of equipment)		
15.1	Are the outside surfaces of equipment, in		
	general and in particular those which are		
	in contact with milk/food, clean (free		
	from dried milk marks/ dust etc).	Major	
15.2	Are these smooth, washable corrosion-	Ŭ	
	resistant and non-toxic materials or		
	appropriate preferably SS (AISI 304) to		
	prevent contamination	Major	
16	Cleaning / sanitization		
	facilities/centralized CIP		
16.1	Are adequate facilities provided for		
	cleaning and disinfecting of working		
	utensils and equipment, (Pipelines, Silo		
	etc.)?	Critical	
16.2	Are these facilities have an adequate		
	supply of hot and cold water?	Critical	

16.3	Are the cleaning agents and disinfectants		
10.5	00	Major	
16.4	Is Centralized CIP System available? If	wiajoi	
10.4	Yes, whether of suitable capacity	Major	
16.5	Are the auto-controls working (timers,	wiajoi	
10.5	temperature controllers, valves)?	Major	
16.6	Is the effectiveness of cleansing (absence	•	
10.0	of residual chemical and swab/rinse test)		
	verified periodically?	Major	
17	Plant Facilities	wiajoi	
17.1	Are there Separate storage facilities for		
1/.1	edible, non- edible constituents		
	(fuel/cleaning agents etc.).	Major	
17.2	Are there Separate storage for wet and	iviajoi	
17.2	dry items	Major	
17.3	All the gauges, temperature including	iviajoi	
17.5	spares properly calibrated and in		
	working order.	Critical	
18	Raw Milk Reception	Cittical	
18.1	Is RMRD raised with sides and top		
10.1	sufficiently protected to prevent		
	contamination while unloading of raw		
	milk?	Major	
18.2	Are air curtain / fly proof mesh provided		
	to prevent entry of flies	Major	
18.3	Are in-line filters for raw milk available?	Major	
18.4	Is the ceiling height (min 5.5 M) to		
	prevent accumulation/condensation of		
	moisture	Major	
18.5	Is there proper ventilation to prevent		
	suffocation in the raw milk reception		
	area (can washer)	Major	
18.6	Are can washing operations proper (If		
	cans scrubber is used- are the cans		
	cleaned properly and if can washer is		
	used- are the cans cleaned properly and		
	coming out dry)	Major	
18.7	Are proper arrangements in place for		
	cleaning, sanitization of road milk		
	tankers bringing chilled milk to		
10.0	processing unit.	Major	
18.8	Are Tanker cleaning facilities so		
	designed to prevent contamination of		
	fresh raw milk /food from water (after	Mala	
10	cleaning), detergents etc	Major	
19	Processing Section		

-			
19.1	Are the entrances so designed to prevent entry of flies?	Major	
19.2	Is the system there so that Pasteurization	Iviajoi	
19.2	Temperature and holding time of milk.		
	(ideally 72° C		
	for 15 seconds for HTST) properly maintained		
19.3			
17.0	Is FDV provided and whether working		
	properly Are the facilities so designed to	Critical	
10.4	stop falling of	Critical	
19.4	Water/water- milk mix (from		
	equipment/working tables) directly on		
	the floor (e.g., being drained through	N. Г :	
20	pipe).	Major	
20	Equipment		
20.1	Is the material of construction proper for		
	milk handling/processing (preferably SS		
20.2	304/316)	Critical	
20.2	Are the equipment kept in clean state and		
20.2	properly sanitized.	Critical	
20.3	Are these provided with proper recording		
20.4	instruments (temp /pressure/ flow rate)	Critical	
20.4	Are the process control equipment		
		Critical	
21	Food Waste/ refuse		
21.1	Are edible/ non-edible By Products /		
	waste food items removed quickly to		
	prevent contamination?	Major	
21.2	Are edible/ non-edible By Products /		
	waste food items after removal kept at a		
	faraway place to prevent contamination?	Major	
21.3	Are the refuse storage areas free of		
	animals, pets and pests?	Major	
21.4	Is the refuse handled in a hygienic		
	manner as per the guidelines of pollution		
	control department and also does not		
	cause contamination to the processing		
	area.	Major	
22	Water		
22.1	Is proper record of quality of Water used		
	for the processing kept?	Critical	
22.2	If water obtained from external sources		
	is tested/analyzed and documented for its		
		Major	
22.3	Does the dairy have water softening and		
	water disinfection plant (if needed)	Major	

22.4	Is capacity of facility			
	(softener/disinfection sufficient for			
	operations	Major		
22.5	Is water stored in overhead storage tanks			
	protected from outside contamination?	Major		
22.6	Are such overhead tanks easily			
	accessible for cleaning; disinfection.	Major		
22.7	Is there Cleaning schedule for water			
	storage tanks/facilities available and			
	followed properly (by records)	Major		
22.8	Is quality water (IS 4251) availability			
	sufficient in relation to maximum daily			
	production?	Major		
23	Freezing/Cold Store Systems			
23.1	Is there appropriate schedule for			
	Maintenance, cleaning and disinfection			
	of freezers/cold stores	Major		
23.2	Is the temperature of the freezers/ cold			
	store recorded? If so, are the recording			
	equipment calibrated and certified?	Critical	-	
23.3	Is Documentation of recordings of			
	temperatures of the freezers/cold store			
	available	Major		
23.4	Is the area of cold rooms sufficient for			
	proper storage of milk and milk products			
	(400 Lts/m2)	Major		
23.5	Is there proper ante room / air lock or			
22.6	suitable working arrangements?	Minor		
23.6	Are the pallets made of non-absorbent			
24	materials (other than wood)?	Major	<u> </u>	
24	Packaging film, Packaging, pouch,			
24.1	crates and Storage			
24.1	Is the packaging film made from virgin	Cuiting1		
24.2	material.	Critical		
24.2	Is the film material fit (food grade) for use for food items/milk and milk			
		Critical		
24.3	products	Cinical		
24.3	Is there any instance of printing ink coming off the film and getting			
	transferred to inside of film in rolls.	Critical		
24.4		Cinical	+	
24.4	Is the printing from ink approved for use for milk and milk products packet.	Major		
24.5	Is the film of proper thickness required	iviajoi	+	
24.3	for leak proof/ sturdy packing	Major		
L	por reak proon sturing packing	րուսյու	1	

24.6	Does the print matter broadly comply		
	with the requirements of labelling		
	requirement (such as FSSAI licence		
	number, type of product, use before date		
	etc) – as regards full compliance the unit		
	is responsible.	Critical	
24.7	Packaging area well protected from		
	rodents and pests	Critical	
24.8	Is the packing room hygienically		
	maintained and free from waste film etc	Major	
24.9	Is the packaging material reused?	Critical	
24.10	Are the packed units randomly weighed		
	(for total weight of product and		
	packaging material) and records		
	maintained	Critical	
24.11	Is the temp of packed product checked		
	periodically and records maintained	Minor	
24.12	Are the crates of milk pouches in sound		
	condition- without cracks, broken etc	Major	
24.13	Are the crates of milk pouches properly		
	cleaned	Major	
24.14	Are the UV tube lights of packing		
24.15	machines working	Major	
24.15	Is there proper system for traceability in		
	place	Critical	
24.16	Is there facility to store day stock		
	packaging materials in safe and hygienic	~	
	manner	Critical	
24.17	Is there proper facility to store primary /		
	secondary / tertiary packaging materials		
	in hygienic and dust free environment	Major	
25	Steam and Air Supply and Effluent		
25.1	treatment systems		
25.1	When steam / air comes in direct contact		
	with food or food contact surfaces, is it		
	free from substances that may (i) be		
	hazardous to health (ii) contaminate the		
	milk / milk products (iii) Free from oil or		
25.2	other such material	Critical	
25.2	Does the dairy have a working ETP?	Major	
25.3	Is capacity of ETP sufficient to take care	N.C	
25.4	of total load	Major	
25.4	Does the discharged effluent comply		
	with the statutory requirements in force $(ROD, COD, stat)^2$	Outline 1	
25.5	(BOD, COD, etc)?	Critical	
25.5	Is smell observed near the ETP	Major	
26	Maintenance/Calibration schedules		

$b \in 1$		
26.1	Is there a documented procedure for the	
	maintenance of different sections of the	Major
	dairy/ equipment/ plant and machinery/	
2.5.2	laboratory items	
26.2	Is there a documented procedure for the	
	calibration of instruments/gauges/ in	Major
	different sections i.e. Engineering,	
	Processing and laboratory	
27	Processing and laboratory Quality Assurance systems and Laboratory Procedures	
27.1	Are the certified QA systems of ISO and	
	HACCP/FSMS (ISO-HACCP - IS	
	15000/ ISO22000/FSSC 22000) in	
	place?	Critical
272	Are the breakdowns /malfunctions/	
	Product failure recorded and proper	
	traceability system in place?	Major
27.3	Is there proper arrangement for pest &	
	vermin control and documented	Culting 1
	procedure is maintained" (either by self	Critical
	or through outside agency)?	
27.4	Is there a separate laboratory (away from	
	main building) for pathogen testing or	Culting 1
	alternatively, pathogen testing is being	Critical
	done at outside labs at regular intervals	
27.5	Is laboratory in good condition, having	
	shelf /working table with acid resistant	
	-	Major
27.6	Is working area on shelf / working table	
	•	Major
27.7	Are proper facilities there for	
	compositional and chemical analysis	Critical
27.8	Are proper facilities available for	
	Microbial testing/ analysis	Critical
27.9	Are personnel responsible for conducting	Major
	microbiological and chemical analysis	
	properly qualified/trained?	
27.10	Are the proper sampling procedures	Major
	followed for testing of raw material, in	
	process and finished goods?	
27.11	Is proper testing done on raw materials	
	(microbial contaminants, chemical	
	contaminants and residues) / Raw milk	
	(Somatic Cell Counts, Chemical	
	contaminants and residues) and records	
	,	Major
27.12	Is proper testing done in process	
		Major
L		

Is proper testing done on finished goods	
	Major
Is the health of person employed in	
processing section, milk products	
manufacturing packaging handing	Critical
. .	Cifical
	Critical
	Critical
,	Critical
•	
1 1 1	
0 0 1	
e	
	Critical
	Critical
Are all the vehicles used for distant	Major
places (say more than 30 km) insulated	
and covered	
Are Vehicles used within city or up to	
30kms insulated or properly	Major
Retails Outlets/ Points	
Is the establishment owned) Both or	
parlour) or leased retail outlet has	Major
	Major
	N.C.
	Minor
	Minor
	Minor
In case of temporary/ make shift retail	
out for liquid milk. Is any shade	Major
out for liquid milk. Is any shade provided over crates and milk pouches?	Major
out for liquid milk. Is any shade provided over crates and milk pouches? Are there adequate cooling chilling	Major
out for liquid milk. Is any shade provided over crates and milk pouches?	Major
	 processing section, milk products manufacturing packaging handing checked regularly so that they are disease free and fit to work in milk and milk products unit health records verification. Is there any system/mechanism in place for checking hygiene and cleanliness of operators/workers on daily basis- supported by records/ documents? Are the person in milk process plant follow hygienic practices (as per the observation of team) Is there a system to prevent any other person (from other departments) suffering from contagious disease, open cuts wounds etc- coming in close proximity of milk processing / products handling area. Transport vehicles for distribution Is the vehicle kept in a clean condition Are all the vehicles used for distant places (say more than 30 km) insulated and covered Are Vehicles used within city or up to 30kms insulated or properly Retails Outlets/ Points Is the establishment owned) Both or

30.7	Is the behavior of retailers with	Minor	
	costumers courteous and respectful		
31	General feedback from customers		
31.1	Does the establishment have proper and		
	easy system to receive and resolve		
	consumer complaints (Email other than		
	one with conditionality's through web		
	site link, responsive telephone no)	Critical	

Sl No	Parameter	Total Points	Compliance	% Compliance	Remark
1	Critical	45			
2	Major	96			
3	Minor	10			
		157			