

केंद्रीय मुहर विभाग-2

संदर्भ: कें.मु.वि.-2/16:13334 (भाग 2)

03 01 2018

विषय: संशोधित एसटीआई (डॉक: एसटीआई / 13334 (भाग 2) /7, दिसंबर 2017) "मलाई रहित दूध पाउडर भाग 2 अतिरिक्त ग्रेड -विशिष्टि (प्रथम संशोधन)" का कार्यान्वयन।

कृपया संलग्न संशोधित एसटीआई (डॉक: एसटीआई /13334 (भाग 2) /7, दिसंबर 2017) "मलाई रहित दूध पाउडर भाग 2 अतिरिक्त ग्रेड -विशिष्टि (प्रथम संशोधन)" देखें।

संशोधित एस टी आई (डॉक : एसटीआई /13334 (भाग 2) /7, दिसंबर 2017) सक्षम अधिकारी द्वारा अनुमोदित है। संबन्धित एस टी आई की प्रतिलिपि संलग्न है।

सभी क्षेत्रीय /शाखा कार्यालयों से अनुरोध किया जाता है कि उपरोक्त संशोधित एसटीआई को तत्काल प्रभाव से लागू किया जाए।

(अदाने ख्रासी)

वैज्ञा. सी. (कें. मु.वि.-2)

प्रमुख (कें.मु.वि.-2) (हस्ता)

सभी क्षेत्रीय /शाखा /प्रयोगशाला कार्यालयों एवं एफएडी को परिचालित प्रतिलिपि: ITS इंटरनेट पर अपलोड करने के लिए

CENTRAL MARKS DEPARTMENT-2

Ref: CMD-2/16:13334(Part 2)
2018

03 01

Subject: Implementation of revised STI (Doc: STI/13334(Part 2)/7, December 2017) "Skimmed Milk Powder Part 2 Extra Grade - Specification (First Revision).

Please find enclosed revised STI (Doc: STI/13334(Part 2)/7, December 2017) "Skimmed Milk Powder part 2 Extra Grade - Specification (First Revision).

Competent authority has approved the STI (Doc: STI/13334(Part 2)/7, December 2017). The copy of the STI is enclosed.

All ROs/BOs are requested to ensure implementation of the above revised STI with immediate effect.

(Adane khraasi)
Scientist C (CMD-2)

Head (CMD-2)(sd/-)

Circulated to all ROs/BOs/ /Labs and FAD

Copy to: ITS for hosting on Intranet

**SCHEME OF TESTING AND INSPECTION
FOR CERTIFICATION OF
SKIMMED MILK POWDER PART 2 EXTRA GRADE
ACCORDING TO IS 13334 (Part-2) : 2014
(Incorporating Amendment No. 1)**

1. Laboratory

1.1 A laboratory shall be maintained which shall be suitably equipped and staffed to carry out the different tests in accordance with the methods given in the Indian Standards.

2. Test Record

2.1 All records of analysis and tests shall be kept in suitable forms approved by the Bureau of Indian Standards.

2.2 Copies of any records that may be required by BIS shall be made available at anytime on request.

3. Quality Control

3.1 It is recommended that, as far as possible, Statistical Quality Control (SQC) methods may be used for controlling the quality of the products as envisaged in this Scheme [See IS 397 (Various parts)].

3.2 The following instruments/equipments are required to be brought under calibration control, as per frequency to be decided depending upon the usage.

3.3 In addition, effort should be made to gradually introduce a Quality Management System in accordance with IS/ISO 9001.

4. MARKING

4.1 Standard Mark-The Standard Mark as given in Column (1) of the first Schedule of the licence shall be stencilled with indelible ink or printed on labels applied to the container of Skim Milk Powder Provided always that the material in each container to which this mark is applied conforms to every requirement of the specification.

4.2 Other Marking– The container shall bear legibly and indelibly the following information:

- a) Name and Grade of the material and brand name, if any;
- b) Name and address of manufacturer;
- c) Batch or Code No.;
- d) Month and year of manufacturing or packing;
- e) Net quantity;
- f) Direction for storage;
- g) Best before -----(month and year in capital letters);

OR

- Best before------(months) from the date of packing/manufacture;
- h) Direction for reconstitution;
 - i) The container contain equivalent of -----litre of skimmed milk;
 - k) Information given under note, if applicable;
 - l) Any other requirements under the Legal Metrology (Packaged Commodities) Rules,2011 and Food Safety and Standards (Food Products Standards and Food Additives) Regulation, 2011
 - m)Licence No. (CM/L-----)
 - n) BIS website address: www.bis.org.in
 - o) Note: In the case of flexible pack, the following information shall be marked on the label:‘Once opened, the entire product content should immediately be placed in a clean air-tight container’.

6. Packing and Storage

- 6.1** The material shall be packed as per Cl. 6.1.1 and 6.1.2 of IS13334 (part-2):2014.

7. Raw Milk

- 7.1** The raw milk received in factory shall be tested for fat, SNF, COB, Neutralizers, Additives, MB etc, and appropriate records maintained. The Standardized Milk before spray drying shall be tested for freedom from Neutralizers, Preservatives, Additives and necessary records maintained.

8. Levels of Control

- 8.1** The analysis and tests as indicated in Table 1 and at the levels of control specified therein, shall be carried out on the whole production of the factory which is covered by this Scheme and appropriate records and charts maintained in accordance with paragraph 2 above. All the production which conforms to the Indian Standards and covered by this licence shall be marked with Certification Mark of the Bureau.

- 8.2 Control Unit** – For the purpose of this Scheme, the entire quantity of milk powder manufactured continuously at a time in a period of 24 hours or a part thereof shall constitute a control unit.

- 8.3** On the basis of test and analysis results, decision regarding the conformity or otherwise of a control unit of milk powder to the requirements of the specification shall be made as follows:

- 8.3.1** A sample shall be taken at the packing stage after every half an hour which shall be examined visually for appearance, colour, absence of lump and extraneous matter; examined by organoleptic methods for flavour and taste, absence of added colour & added flavour and analyzed for moisture content. If the sample does not conform to the specification in any one or more of these requirements, the material manufactured during the half an hour prior to the drawl of sample shall either be rejected or reprocessed and the defect(s) rectified. Such reprocessed material when tested again shall conform to all the requirements of the specification.

- 8.3.2** Two samples shall be drawn from every control unit, one during the first half of the packing period and other during the second half of the packing period. These samples shall be individually tested for Milk Protein in Milk solids not fat, Insolubility index, Milk fat, Titrable acidity, Scorched particles, Bacterial count, Coliform count and Escherichia coli. If any one or both the samples fail to conform to anyone or more of these requirement(s) as given in the specification, the entire material in the control unit shall not be marked. The material may, however, be reprocessed and the defect(s) rectified. Such reprocessed material when tested again shall conform to all the requirements of the specification.
- 8.3.3** Two samples from every seventh control unit (starting from a control unit chosen at random) shall be tested for Total ash. If any one or both the samples fail to satisfy the requirement, the corresponding control unit shall not be marked. The material in the control unit may, however, be reprocessed and the defect rectified. Such reprocessed material when tested again shall conform to all the requirements of the specification. Two samples from every subsequent control unit shall be tested for the characteristic where failure has occurred till seven consecutive control units are found meeting the specification requirements, whereupon the original frequency of testing may be resumed.
- 8.3.4** The sample(s) shall be drawn from the product every month for testing of **Lactate content** and Coagulase Positive *Staphylococcus aureus*, *Salmonella*, Spore Count a) Aerobic (*Bacillus cereus*), b) Anaerobic (sulphite reducing clostridia), and *Listeria monocytogenes* as given under Table-2. In case of failure of the sample in any one or more of these characteristics the corresponding control unit shall not be marked and two samples from every subsequent control unit shall be tested for the characteristic(s) where failure has occurred, till five consecutive control units are found meeting the specification requirement(s) whereupon the original frequency of testing may be resumed.

Note: The requirement for pathogens (like *Salmonella*, etc) shall be tested in a laboratory situated away from the production area or in an outside recognised lab.

- 8.3.5** Skim Milk Powder shall be the material prepared by spray drying of fresh skimmed milk of cow or buffalo or a combination thereof.
- 8.3.6** The product may contain added calcium chloride, citric acid and sodium citrate, sodium salts of orthophosphoric acid and polyphosphoric (as linear phosphate), not exceeding 0.3 percent by mass of the finished product.
- 8.3.7** All processing and drying should be carried out in a manner that minimizes loss of nutritive value, particularly protein quality.
- 8.3.8** Undertaking wrt clause 5.8 of ISS to be submitted by the manufacturer stating that it shall be the responsibility of the firm/manufacturer to comply with the relevant

requirements as per Food Safety and Standards (Contaminants, toxins and residue) Regulations, 2011 and maintain records of the conformance.

9 Hygienic Conditions

- 9.1** The material shall be manufactured packed, stored and distributed under hygienic conditions (see IS 2491). All the process equipments should be properly cleaned and care should be taken to prevent infestation.
- 9.2** In respect of all other clauses of the specification, the factory shall maintain appropriate controls and checks to ensure that the product conforms to the various requirements of the specification.

10 Rejection

- 10.1** A separate record shall be maintained giving information relating to the rejection of units of Skim Milk Powder which do not conform to the specification and the method of their disposal. Such material, if packed in containers, shall in no case be stored together with that conforming to the specification.

11 Samples

- 11.1** The licensee shall supply, free of charge, the sample or samples required in accordance with the Bureau of Indian Standards (Certification) Regulations from his factory or godown. BIS shall pay for the samples taken by it from the open market.

12 Replacement

- 12.1** Whenever a complaint is received soon after the goods with the Standard Mark have been purchased and used, and if there is adequate evidence that the goods have not been misused, defective goods or their components shall be replaced or repaired free of cost by the licensee in case the complaint is proved to be genuine and the warranty period (where applicable) has not expired. The final authority to judge conformity of the product to the Indian Standard shall be with BIS. The firm should have its own complaint investigation systems as per IS/ISO 10002.
- 12.2** In the event of any damages caused by the goods bearing the Standard Mark, or claim being filed by the consumers against BIS Standard Mark and not "conforming to" their relevant Indian Standard, entire liability arising out of such non conforming product shall be of licensee and BIS shall not in any way be responsible in such cases.

13 Stop Marking

- 13.1** The marking of the product shall be stopped under intimation to BIS, if at any time, there is some difficulty in maintaining the conformity of the product to the specification or the testing equipment goes out of order. The marking may be resumed as soon as the defects are removed under intimation to BIS.

13.2 The marking of the product shall be stopped immediately if directed to do so by BIS for any reason. The marking may then be resumed only after permission by BIS. The information regarding resumption of marking shall also be sent to BIS.

14 Production Data

14.1 The licensee shall send to BIS a statement of quantity produced, marked and exported by him and the value thereof at the end of each operative year of the licence as per the enclosed proforma (Annex I) which has to be authenticated by a Chartered Accountant.

IS 13334(Part 2) : 2014
SKIM MILK POWDER PART 2 EXTRA GRADE
Table 1 LEVELS OF CONTROL
(Para 8 of the Scheme of Testing and Inspection)

TEST DETAILS				LEVELS OF CONTROL		REMARKS
Clause	Requirement	Test Method		No. of Sample	Frequency	
		Clause	Reference			
4	Description	4	IS 13334(Pt-2)	One	Every half an hour	See Clause 8.3.1 of STI
5.2 & 5.3	Freedom from Extraneous matter, added colour & added flavour	5.2 & 5.3	--do--	One	-do-	-do-
5.4	Flavour and Taste	5.4	IS 10030	One	-do-	-do-
5.7 & Table 1	Moisture	-	IS 11623 or IS 16072	One	-do-	-do-
-do-	Milk Protein in milk solids not fat	-	IS 7219	Two	Each control unit	See Clause 8.3.2 of STI
-do-	Milk Fat	Annex-B	IS 11721 or IS 13334(Pt-1)	Two	-do-	-do-
-do-	Insolubility Index	-	IS 12759	Two	-do-	-do-
-do-	Total Ash (On dry basis)	Annex B	IS 14433	Two	Every seventh control unit	See Clause 8.3.3 of STI
-do-	Titration Acidity	-	IS 11766	Two	Each control unit	See Clause 8.3.2 of STI
-do-	Lactate Content	-	IS 11202	Two	Once in a month	See clause 8.3.4 of STI
-do-	Scorched Particles	-	IS 13500	Two	-do-	-do-

IS 13334(Part - 2):2014
SKIM MILK POWDER - EXTRA GRADE
Table 2 LEVELS OF CONTROL

Clause	Requirement	Clause	Test Method Reference	No. of Sample	Frequency	Remarks
5.7 & Table 2	Bacterial count	-	IS 5402	Two	Each control unit	See Clause 8.3.2 of STI
-do-	Coliform Count	-	IS 5401(Pt-1)	Two	-do-	-do-
-do-	<i>Escherichia coli</i>		IS 5887(Pt-1)	Two	-do-	-do-
-do-	Coagulase Positive <i>Staphylococcus aureus</i>	-	IS 5887(Pt-2)	One	Once in a month	See Clause 8.3.4 of STI
-do-	Salmonella	-	IS 5887(Pt-3)	One	-do-	-do-
-do-	Spore Count	-	IS 5887(Pt-6)	One	-do-	-do-
	a) Aerobic (<i>Bacillus cereus</i>)		ISO 15213	One	-do-	-do-
	b) Anaerobic (sulphite reducing clostridia)					
-do-	<i>Listeria monocytogenes</i>	-	IS 14988(Part-1)	One	-do-	-do-

NOTE:*In case the production is started after the shutdown of the plant, for more than a week's time, for any reason, it shall be ensured before packing and dispatching the material with the Standard Mark, that the material is tested for all the requirements of the specification. ** The requirement for pathogens (like Salmonella, etc) shall be tested in a laboratory situated away from the production area.

APPENDIX I
PROFORMA FOR OBTAINING PRODUCTION DETAILS

(Period to be covered by the Report being _____ to _____)*

Name of Licensee

CM/L No.

Name of Articles(s)

IS No.

Grade/type/Size/Variety/Class/ Rating

1. Brand/Trade/Name(s) of BIS Certification Marked Products

2. Total production of the article(s) licensed for certification marking

2.1 Total production of the article(s) conforming to Indian Standard

3. Production covered with BIS Certification Mark and its approximate value

a) Quantity

b) Value Rs.

3.1 Brand Name used on production covered under BIS Certification Mark

3.2 Calculation of marking fee on Unit-rate basis: Marking Fee per unit

a) Unit*

b) Quantity covered with BIS Certification Mark

c) Marking fee rounded off in whole rupees as obtained by applying unit rates given in (a) on quantity given in (b)

4. Quantity not covered with BIS Certification Mark. If any, and the reasons for such non-coverage

4.1 Brand Name under which non certified goods were sold

5. Quantity Exported with BIS Standard Mark and its value

5.1 Brand Name under which BIS Certified goods are exported

6. Authentication by Chartered Accountant

Note: In case a clause is not applicable, suitable remarks may be given against it.

*Information to be filled up by BO before forwarding to the licensee.