SCHEME OF TESTING AND INSPECTION
FOR CERTIFICATION OF
SALT AND REFINED IODIZED SALT,
VACUUM EVAPORATED IODIZED
ACCORDING TO IS 7224:2006
(Second Revision)

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

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

2.2 Quality Control - 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 (Part 1): 2003, IS 397 (Part 2): 2003 and IS 397 (Part 3): 2003].

2.2.1 All testing apparatus shall be periodically checked and Calibrated and records of such checks/calibration shall be maintained.

2.3 In addition, effort should be made to gradually introduce a Quality Management System in accordance with IS/ISO 9001:2000.

3. Standard Mark - The Standard Mark(s) as given in Column(I) of the first Schedule of the licence shall be printed/stenciled on each package, provided always that the material in each package to which this mark is thus applied conforms to every requirement of the specification.

4. Marking - In addition, the following information should be given on each container or on the label attached to it:

   a) Name and type of the product;
   b) Name and address of the manufacturer;
   c) Lot and/or Batch No.;
   d) Iodizing agent used;
   e) Iodine content when packed
   f) Date of Manufacturing (month & year)
   g) Best before date;
   h) Net Mass;
   j) Instructions for Storage “Store in a cool and dry place”
   k) Any other details required under the Standards & Measures (Packaged Commodities) rules, 1977 and Prevention of food Adulteration Rules, 1955;
   l) Licence number (CM/L……) and;
   m) BIS website address www.bis.org.in
5. **Packing** – The product shall be packed as per clause 5.1 of IS 7224:2006. The packages shall be securely closed.

6. **Levels of Control** - 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 para 2 above. All the production which conforms to the Indian Standard and covered by this licence shall be marked with the Standard Mark.

6.1 **Control Unit** - For the purpose of this scheme, the quantity of material manufactured continuously in 24 hr or premix grinded/refined at a time shall be taken as a control unit.

6.2 On the basis of the test results, decision regarding the conformity otherwise of a control unit/one day’s production for a given requirement of specification shall be made as follows:

6.2.1 One sample shall be drawn at every two hours and tested for iodine content. In case of failure the material produced during the period shall be rejected and sample at every ½ hr shall be tested till three samples pass. The material thus rejected may be reprocessed. The reprocessed material may be marked if sample drawn from the material passes all the requirements including iodine content.

6.2.2 One sample shall be drawn at every 8 hours and tested for the requirement of description, moisture and particle size. If the sample fails, in any of these requirements, the entire 8 hrs production shall be considered unfit for the purpose of marking.

6.2.3 A composite sample shall be prepared from all the samples drawn from each shift production in a day, which were found to have passed the requirements of description, moisture content, particle size and iodine content. This sample when tested shall conform to all the other requirements of the specification, (See Table 1 of the Scheme). If the sample fails, in any of these requirement, the day’s production shall be considered unfit for the purpose of marking.

6.2.4 The material may contain anticaking agents as permitted under the PFA Rules, 1955 subject to a maximum 2 percent by mass, either singly or in combination. Further, when calcium, potassium or sodium ferrocyanide are used as crystal modifiers and anticaking agents, their quantity should not exceed 10 mg/kg, on dry basis, either singly or in combination expressed as ferrocyanide when tested by the method prescribed in Annex B of IS 7224.

7. In respect of all other clauses of the specification and at all stages of production, appropriate controls and checks shall be maintained by the factory so as to ensure that the product conforms to the various requirements of the specification.

8. The material shall be prepared filled & processed under hygienic conditions and the manufacturing premises shall be maintained in a thoroughly clean & hygienic manner (See IS 2491:1998 Food Hygiene – General principles – Code of practice).
9. **Rejection** - A separate record shall be maintained giving information relating to the rejection of units of Processed – Cereal Based Complementary Foods 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.

10. **Samples** - 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.

11. **Replacement** - 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 15400.

11.1 In the event of any damages caused by the goods bearing the Standard Mark, or claim being filed by the consumer against BIS Standard Mark and not "conforming to" the 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.

12. **Stop Marking** - 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.

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.

13. **Production Data** - The licensee shall send to BIS as per the enclosed proforma to be authenticated by a Chartered Accountant or by the manufacturer by giving an affidavit / undertaking, a statement of quantity produced, marked and exported by him and the trade value thereof end of each operative year of the licence.
TABLE 1 LEVELS OF CONTROL
(Para 6 of the Scheme of Testing and Inspection)

<table>
<thead>
<tr>
<th>Test Details</th>
<th>Levels of Control</th>
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<tbody>
<tr>
<td><strong>Clause</strong></td>
<td><strong>Requirements</strong></td>
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<tr>
<td>4.1</td>
<td>Description</td>
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<tr>
<td>4.2</td>
<td>Particle size</td>
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<tr>
<td>4.3 &amp; Table 1</td>
<td>i) Moisture</td>
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<td>ii) Water insoluble matter</td>
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<td></td>
<td>iii) Chloride content (as NaCl)</td>
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<td>iv) Matter soluble in water other than sodium chloride</td>
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<td></td>
<td>v) Calcium (as Ca)</td>
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<td></td>
<td>vi) Magnesium (as Mg)</td>
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<td></td>
<td>vii) Sulphate (as SO4)</td>
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<td></td>
<td>viii) Iodine content</td>
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<td></td>
<td>ix) Alkalinity (as Na2Co3)</td>
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<td></td>
<td>x) Lead (as Pb)</td>
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<tr>
<td></td>
<td>xi) Arsenic (as As)</td>
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<td></td>
<td>xii) Iron (as Fe)</td>
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</tbody>
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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

1.1 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

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

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

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
Subject: Implementation of Revised IS 7224:2006 Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt.

IS 7224:1985 has been revised. During revision following major changes have taken place:

a) Two more types and their requirements i.e. Vacuum evaporated Iodized Salt and Refined Iodized Salt have been included.
b) Title of the standard has been changed from Iodized Salt to “Iodized Salt, Vacuum evaporated Iodized Salt and Refined Iodized Salt.”
c) New requirements of Calcium, Magnesium and Sulphate have been added for Vacuum evaporated Iodized Salt and Refined Iodized Salt.
d) New requirements of Alkalinity, Lead Arsenic and Iron have been added for all the three types of Iodized Salts.
e) All Methods of tests have been incorporated in IS 7224 itself as Annex to make it more user friendly.

Accordingly, the STI of IS 7224:2006 has been revised as DOC: STI/7224/5 May 2007 (Available on BIS Intranet). In order to implement, the revised standard and its Scheme of Testing and Inspection, the following procedure shall be adopted.

For existing licensee:

1. Concerned BO to verify the working and availability of testing facilities according to the revised Indian Standard with the licensee and obtain the declaration of additional test equipments/chemicals on CMD PF 306.
2. BO to ensure factory testing/independent testing depending upon the nature of test during routine surveillance visit, for all requirements to ensure the conformity of the product to the revised Indian Standard.
3. BO to ensure endorsement in the licence as per revised Indian Standard after obtaining following:
   a) Acceptance of revised STI.
   b) Declaration regarding availability of additional test equipments/chemicals from CMD/PF 306.
   c) Test report indicating conformity of the product to the revised Indian Standard.
4. Action shall be taken as per OM 2004, if the licensee fails to submit the acceptance of STI in stipulated time and if the sample fails in factory/independent testing according to the revised Indian Standard.
For Applicants:

1. All new applications may be recorded and processed as per revised IS 7224:2006.
2. New licence shall be granted during this period as per IS 7224:2006. ROs/BOs shall ensure that new licensee shall implement the revised Indian standard and the revised STI within the stipulated period.


(A.K. Bhatnagar)
Scientist E & Head

All ROs/BOs

Copy to:  
i) FAD with a request for Gazette notification w.e.f. 31 July 2007. 
ii) CMD-I
iii) ITSD with a request to post it on BIS Intranet