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भारतीय मानक मसौदा
पोल्ट्री आहार घटक के रूप में मांस भोजन — विशिष्टि
(आई एस 5065 का दूसरा पुनरीक्षण)

Draft Indian Standard

MEAT MEAL AS POULTRY FEED INGREDIENT — SPECIFICATION
(Second Revision of IS 5065)

ICS No. 65.120

Animal Feeds and Nutrition Sectional Last Date of Comments: **15 March 2025**
Committee, FAD 05

FOREWORD

(Formal clauses would be added later)

Meat meal is one of the important protein supplements used in poultry feed. Meat meal is a by-product obtained from the dead animal rendering plant. In the preparation of meat meal, the carcasses of dead animals, which may or may not have been deboned, are first boiled in open cauldrons or in closed vessels, and then dried in steam jacketed vessels. The dried material is then pulverized. This material, besides serving as a protein supplement, also provides minerals, particularly, calcium and phosphorus to the poultry. In order to exercise proper quality control during their production, it is considered necessary to have standards for this product. It is expected that this standard would also assist the consumer to procure meat meal of a known quality.

This standard was first published in 1969 and revised in 1986. In the first revision the requirement of moisture content was modified and reference was given to IS 7874 (Part 1) and IS 7874 (Part 2) for adopting uniform test methods. In this revision, methods of tests prescribed for determination of various parameters have been updated and packaging and marking requirements have also been updated.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Draft Indian Standard***MEAT MEAL AS POULTRY FEED INGREDIENT — SPECIFICATION***(Second Revision)***1 SCOPE**

1.1 This standard prescribes the requirements, and methods of sampling and test for meat meal meant for use as a poultry feed ingredient.

2 REFERENCES

The standards listed below contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below:

<i>IS No.</i>	<i>Title</i>
IS 1070 : 2023	Reagent grade water — Specification (<i>fourth revision</i>)
IS 2052 : 2023	Compounded Feeds for Cattle — Specification (<i>fifth revision</i>)
IS/ISO 5983 (Part 1) :2005	Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content: Part 1 (Kjeldahl Method)
IS 5983 (Part 2): 2021/ ISO 5983- 2:2009	Animal feeding stuffs — Determination of nitrogen content and calculation of crude protein content: Part 2 Block digestion and steam distillation method (<i>first revision</i>)
IS/ISO 6492 : 1999	Animal feeding stuffs — Determination of fat content
IS 7874 (Part 1): 1975	Methods of tests for animal feeds and feeding stuffs General methods
(Part 3) : 2020	Microbiological Methods (<i>first revision</i>)
IS 14826: 2021/ISO 5985: 2002	Animal feeding stuffs — Determination of ash insoluble in hydrochloric acid (<i>first revision</i>)
IS 14828 : 2000 / ISO 6491 :1998	Animal feeding stuff — Determination of total phosphorus content — Spectrophotometric method
IS/ISO 16634 -1: 2008	Food products — Determination of the total nitrogen content by combustion according to the dumas principle and calculation of the crude protein content — Part 1: Oilseeds and animal feeding stuffs
EN 15621 : 2017	Animal feeding stuffs: Methods of sampling and analysis — Determination of calcium, sodium, phosphorus, magnesium, potassium, sulphur, iron, zinc, copper, manganese and cobalt after pressure digestion by ICP-AES

3 REQUIREMENTS

3.1 General — Meat meal shall be coarse, deep brown coloured powdery material. The material shall be free from adulterants and visible insect and fungal infestation. Meat meal shall be free from odour indicative of rancidity or any other objectionable odour but shall possess an odour characteristic of these products.

3.2 Freedom from Pathogens — Meat meal shall be free from spores of *Bacillus anthracis*, *Clostridium* sp and *Salmonella* when tested according to the method prescribed in IS 7874 (Part 3).

3.3 Meat meal shall also conform to the requirements prescribed in Table 1.

Table 1 Requirements for Meat Meal as Poultry Feed Ingredient
(Clause 3.3 and 6.1)

Sl No.	Characteristic	Requirement	Method of Test
(1)	(2)	(3)	(4)
i)	Moisture, percent by mass, <i>Max</i>	8.0	4 of IS 7874 (Part 1)
ii)	Crude protein ($N_2 \times 6.25$), percent by mass, <i>Min</i>	70.0	IS/ISO 5983 (Part 1)* or IS 5983 (Part 2) or IS/ISO 16634-1
iii)	Crude fat, percent by mass, <i>Max</i>	6.0	IS/ISO 6492
iv)	Phosphorus (as P), percent by mass, <i>Max</i>	1.0	IS 14828* or EN 15621
v)	Acid insoluble ash, percent by mass, <i>Max</i>	1.0	10 of IS 7874 (Part 1) or IS 14826*

NOTES-

- 1) The values specified for requirements at Sl. No. (ii) to (v) are on moisture-free basis.
- 2) In case of dispute, the test method indicated by ‘*’ shall be the referee method.

4 PACKING AND MARKING

4.1 Packing — The material shall be packed in clean and sound moisture-proof, HDPE bags or polyethylene lined jute or laminated paper bags. The mouth of each bag shall be machine stitched.

4.2 Marking

4.2.1 Each container shall be suitably marked or labelled and shall give the following information:

- a) Name of the material;
- b) Name and address of the manufacturer;
- c) Batch or code number;

- d) Net mass in kg;
- e) Date of packing;
- f) Best before date in day, month and year format;
- g) Any other requirement as given under *The Legal Metrology (Packaged Commodities) Rules, 2011*.

4.2.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the standard mark.

5 SAMPLING

5.1 Representative samples of the material for ascertaining conformity to this standard shall be drawn according to the method prescribed in Annex D of IS 2052.

6 TESTS

6.1 The tests shall be carried out as referred to in col (4) of Table 1 and **3.2**.

6.2 Quality of Reagents - Unless specified otherwise, pure chemicals and distilled water (*see IS 1070*) shall be employed in tests.

NOTE – 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.