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भारतीय मानक मसौदा

पोल्ट्री आहार घटक के रूप में ब्लड मील — विशिष्टि
(आइ एस 7060 का पहला पुनरीक्षण)

Draft Indian Standard

BLOOD MEAL AS POULTRY FEED INGREDIENT — SPECIFICATION
(First Revision of IS 7060)

ICS 65.120

Animal Feeds and Nutrition Sectional Committee,
FAD 05

Last date for Comments: **15 March 2025**

FOREWORD

(Formal clauses would be added later)

Blood meal is one of the important animal products which can be used as a protein supplement in the poultry feeds. In view of modernization of slaughter houses in the country, large quantities of blood meal processed under scientific and hygienic conditions is utilized for feeding poultry. For preparing blood meal it is essential that blood from slaughtered animals is processed within the shortest possible time. In the preparation of blood meal, blood is subjected to an indirect slow heat and dried with constant agitation. Dried blood is then ground. This standard has been formulated considering that blood meal production has a great potential in the country, provided that the quality of the material is ensured. It is expected that this standard would be of help to both the manufacturers of blood meal as well as to the feed manufacturers.

This standard was first published in 1971. 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
BLOOD MEAL AS POULTRY FEED INGREDIENT— SPECIFICATION
(*First Revision*)

1 SCOPE

1.1 This standard prescribes requirements and methods of sampling and test for blood meal as poultry feed.

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/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 Part 1 General methods
IS 7874 (Part 3) : 2020	Methods of tests for animal feeds and feeding stuffs Part 3 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/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
Doc FAD 05 (27263)WC	Bone-meal as poultry feed supplement— Specification (<i>second revision of IS 1942</i>)

3 REQUIREMENTS

3.1 General - Blood meal shall be the product obtained by drying blood which is then ground in the form of a coarse powder. The material shall be free from adulterants and visible insect and fungal infestation. Blood meal shall be free from any offensive odour indicative of rancidity or any other objectionable odour.

3.2 Freedom from Pathogens - Blood meal shall be free from spores of *Bacillus anthracis* and *Clostridium*, sp when tested according to the method prescribed 7874 (Part 1).

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

Table 1 Requirements for Blood Meal as Poultry Feed
(Clause 3.2 and 7.1)

Sl. No. (1)	Characteristic (2)	Requirement (3)	Method of Test (4)
i)	Moisture, percent by mass, <i>Max</i>	8	4 of IS 7874 (Part 1)
ii)	Crude protein ($N_2 \times 6.25$), percent by mass, <i>Min</i>	80	IS/ISO 5983 (Part 1)* or IS 5983 (Part 2) or IS/ISO 16634-1
iii)	Crude fat, percent by mass, <i>Max</i>	2	IS/ISO 6492
iv)	Total ash, percent by mass, <i>Min</i>	5	9 of IS 7874 (Part 1)
v)	Acid insoluble ash, percent by mass, <i>Max</i>	1.5	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.

6 SAMPLING

6.1 Representative samples of the material shall be drawn according to the method prescribed in Annex A of Doc FAD 05 (27263)WC.

7 TESTS

7.1 Tests shall be carried out as prescribed in col 4 of Table 1.

7.2 Quality of Reagents - Unless specified otherwise, pure chemicals shall be employed in tests and distilled water (*see IS 1070*) shall be used where the use of water as reagent is intended.

NOTE - 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the experimental results.