**IS 7060: 1973**

***Indian Standard***

**SPECIFICATION FOR**

**BLOOD MEAL AS POULTRY FEED**

**0. FOR E W 0 R D**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 7 November 1973, after the draft finalized by the Animal Feeds Sectional Committee had been approved by the Agricultural and Food Products Division Council.

**0.2** Blood meal is one of the important animal products which can be used as a protein supplement in the animal feeds. In view of modernization of slaughter houses in the country, it is felt that large quantities of blood meal processed under scientific and hygienic conditions would be available for feeding poultry. Blood meal production has a great potential in the country, provided quality of the material could be ensured. For this purpose, this Indian Standard is being prepared. It is expected that this standard when published would be of help to both the manufacturers of blood meal as well as to the feed manufacturers.

**0.3** 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.

**0.4** 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: 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

**1. SCOPE**

**1.1** This standard prescribes requirements and methods of sampling and teat for blood meal as Poultry feed.

**2. REQUIREMENTS**

**2.1 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.

**2.2 Freedom from Pathogens** - Blood meal shall be free from spores of *Bacillus anthracis* and *Clostridium,* sp when tested according to the method prescribed in ~~Appendix M of IS: 1664-1968\*.~~ IS 7874 Part 3

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

**TABLE 1 REQUIREMENTS FOR BLOOD MEAL AS POULTRY FEED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL No.** | **CHARACTERISTIC** | **REQUIREMENT** | **METHOD OF TEST, REF TO** | |
|  |  |  | ~~Appendix in~~  ~~IS : 2052-1968 ⃰~~ | Appendix in  IS : 1942-1968† |
| **(1)** | **(2)** | **(3)** | **IS 7874 Part 1**  **(4)** | **(5)** |
| i) | Moisture, percent by weight, *Max* | 8 | B |  |
| ii) | Crude protein (N 6.25 ), percent by mass, *Min* | 80 | C |  |
| iii) | Crude fat, percent by mass, *Max* | 2 |  | D |
| iv) | Total ash, percent by mass, *Max* | 5 |  | E |
| v) | Acid insoluble ash, percent by mass, *Max* | 1.5 | E |  |

**NOTE** - The requirements for items (ii) to (v) are on moisture-free basis.

⃰ Specification for compounded feeds for cattle (*first revision*).

†Specification for bone meal as livestock feed supplement (*first revision*)**.**

**3. PACKING**

**3.1** The material shall be packed in moisture proof bags or in any other suitable container subject to the agreement between the purchaser and the vendor. The container used shall be sound, clean and free from causal agents of infectious diseases and parasites. The mouth of each bag shall be either machine-stitched or rolled over and hand-stitched with strong jute twine.

**NOTE** - Bitumen lined bags shall not be used for packing blood meal.

**~~6.3.2~~** 3.2 If one or more test results do not satisfy the requirement for crude protein, the following procedure shall be adopted for determining conformity of the material for crude protein:

Calculate the mean and range of the test results as follows:

Mean (*X̅*) =

Range (*R̅*) = Difference between the maximum and the minimum values of the test result

If (*X̅*) - 0.4 *R* is greater than or equal to 80, the Jot shall be considered as conforming to the specification.