**REVIEW ANALYSIS OF INDIAN STANDARD**

1. **Sectional Committee No. & Title:**
2. **IS No: IS 6107:1971**
3. **Title: Specification for dried silkworm pupae as poultry feed ingredient**
4. **Date of review: 22-04-2022**
5. **Review Analysis**
6. **Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.**

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| **Standard**  **(No. & Title)** | **Whether the standard has since been revised** | **Major changes** | **Action proposed** |
| Nil | Not applicable | Not applicable | Nil |

1. **Status of standards referred in the IS**

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| --- | --- | --- | --- |
| **Referred standards**  **(No. & Title)** | **IS No. of this standards since revised** | **Changes that are of affecting the standard under review** | **Action proposed** |
| IS 1374: 1968 Specification for Poultry Feeds (Second Revision) | IS 1374: 2007 | Testing methods for the requirements of Moisture, Crude Protein, Crude Fat, Crude fibre and acid insoluble ash has been removed from the current version of standard. | Updated testing methods and referred standards may be incorporated in revised standard |
| IS 1070:1960  Specification of water, distilled quality. | IS 1070:1992  Reagent grade water Specification | No change | Revised referred standard may be incorporated |
| IS 2:1960  Rules for rounding off numerical values | No Revision | No Change | Nil |

1. **Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc. or of new or revision of existing Indian Standard): NA**

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| **Standard**  **(No. & Title)** | **Provisions that could be relevant while reviewing the IS** | **Action proposed** |
| IS 1942 : 1968 Specification for bone - Meal as Poultry feed supplement | Requirements of Calcium, (percent by mass) and Phosphorus (percent by mass) | Requirements of Calcium, (percent by mass) and Phosphorus (percent by mass) may also be incorporated in revised standard. |

1. **Technical comments on the standard received, if any**

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| **Source** | **Clause of IS** | **Comment** | **Action proposed** |
| None | NA | None | None |

1. **Information available on technical developments that have taken place (on product/processes/practices/use or application/testing/input materials, etc)**

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| **Source** | **Development** | **Relevant clause of the IS under review that is likely to be impacted**  **(Clause & IS No.)** | **Action proposed** |
| None | None | NA | None |

1. **Issues arising out of changes in any related IS or due to formulation of new Indian Standard**

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| **Related IS and its Title**  **(revised or new)** | **Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision** | **Changes that may be necessary in the Standards under review** | **Action proposed** |
| IS 1374: 2007 Specification for Poultry Feeds (Second Revision) | Testing methods for the requirements of Moisture, Crude Protein, Crude Fat, Crude fibre and acid insoluble ash has been removed from the current version of IS 1374: 2007 | Updated testing methods and referred standards may be incorporated in revised standard | Revised referred standard may be incorporated |

1. **Any consequential changes to be considered in other IS**

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| --- | --- |
| **Related IS to get impacted** | **Requirements to be impacted** |
| Nil | Nil |

**6. Any other observation:** Following major changes being proposed for the revision of IS 6107:1971

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| **IS 6107:1971** | **Changes being proposed** |
| Sl No. i) of Table 1- Test Requirement of Moisture, percent by weight, Max | Alternative test method for Moisture is being proposed i.e. IS 14830:2000, Animal feeds and feeding stuffs - Determination of moisture content |
| Sl No. ii) of Table 1- Test Requirement of Crude Protein, percent by weight, Min | Alternative test method for Crude Protein is being proposed i.e. 14825: 2000/1S0 5985:1997, Animal feeds and feeding stuffs - Determination of nitrogen content and calculation of crude protein content - Kjeldahl method |
| Sl No. iii) of Table 1- Test Requirement of Crude fat, percent by weight, Max | Alternative test method for crude fat is being proposed i.e. IS 7874 (Part 1) : 1975, Methods of tests for animal feeds and feeding stuffs: Part 1 general methods |
| Sl No. iv) of Table 1- Test Requirement of Crude fibre, percent by weight, Max | Alternative test method for Crude fibre is being proposed i.e. 10226 (Part 1) :1982, Method for determination of crude fibre content: Part 1 General method |
| Sl No. v) of Table 1- Test Requirement of Total ash, percent by weight, Max | Alternative test method for Total Ash is being proposed i.e. IS 14826: 2000/  ISO 5985: 1978, Animal feeds and feeding stuffs- Determination of ash soluble in hydrochloric acid |
| Sl No. vi) of Table 1- Test Requirement of Acid insoluble ash, percent by  weight, Max | Alternative test method for Acid insoluble ash is being proposed i.e. IS 14826 : 2021/ISO 5985:2002, Animal feeding stuffs -Determination of ash insoluble in hydrochloric acid |
| Addition of Sl No. vii) of Table 1- Test Requirement of Total Calcium, percent by weight, Min-1 | Test method for calcium is being proposed i.e.   1. IS 13433 (Part 1) :1992, Animal feeds and feeding stuffs - Determination of calcium, Titrimetric method   or   1. IS 13433 (Part 2) :1992, Animal feeds and feeding stuffs - Determination of calcium, Atomic absorption spectrometric method   or   1. IS 15120: 2002/ISO 14565: 2000, Animal feeding stuffs - Determination of the contents of calcium, copper, iron, magnesium, manganese, potassium, sodium and zinc - Method using atomic absorption spectrometry |
| Addition of Sl No. viii) of Table 1- Test Requirement of Total Phosphorus, percent by weight, Min-0.7 | Test method for Phosphorus is being proposed i.e.   1. IS 1374: 2007, Specification   for Poultry Feeds  Or   1. IS 14828: 2000/1S0 6491:1998, Animal feeds and feeding stuffs - Determination of total phosphorus content - Spectrophotometric |

**7. Recommendations:** The IS 6107:1971 may be revised with proposed changes.