उत्पाद मैन्युअल
पोल्ट्री आहार की पूर्ति के लिए खनिज मिश्रण
भारतीय मानक 5672: 2026 के अनुसार

PRODUCT MANUAL FOR MINERAL MIXTURES FOR SUPPLEMENTING POULTRY FEEDS ACCORDING to IS 5672: 2026

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity of practice and transparency in operation of certification underScheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations,2018 for variousproducts. The document may also be used by prospective applicants desirous of obtaining BIS certification.

1.	मानक संख्या **IS No.**	:	IS 5672: 2026
	शीर्षक **Title**	:	पोल्ट्री आहार की पूर्ति के लिए खनिज मिश्रण Mineral Mixtures for Supplementing Poultry Feeds
	संशोधनों की संख्या **No. of amendments**	:	Nil
2.	नमूना दिशानिर्देश **Sampling Guidelines**		
a)	कच्चा माल **Raw material**	:	As per Clause 3.1 and Annex B of IS 5672: 2026. *Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/Factory Surveillance.*
b)	समूहीकरण दिशानिर्देश **Grouping Guidelines**	:	NA (No variety for the product mentioned in IS)

c)	नमूने का परिमाण **Sample Quantity**	:	2 x 1.5 kg *Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (in case of market surveillance, effort may be made to procure the required quantity of product sample, as far as possible since raw material sample may not be available in market)*
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर **Parameters to be Declared in Test Request**	:	Nil *Note: Apart from the above, any other requirements/parameters may also be declared as per the standard, as applicable.*
3.	परीक्षण उपकरणों की सूची **List of Test Equipment**	:	Please refer to Annex-A
4.	निरीक्षण और परीक्षण की स्कीम **Scheme of Inspection and Testing**	:	Please refer to Annex-B
5.	एक दिन में संभावित परीक्षण **Possible tests in a day**		
	(i) Description & Fineness (ii) Freedom from adulterants, insect or visible fungus infestation and undesirable odour. (iii) Moisture (iv) Calcium (v) Phosphorus (vi) Iron (vii) Iodine (viii) Copper (ix) Manganese (x) Fluorine (xi) Zinc *Note: This section is for the guidance of BIS Certification Officers/Technical Auditors of BIS Authorized Outside Surveillance Agencies(OSAs) during factory inspection to provide ready reference regarding the tests which can be witnessed during the inspection in the factory by the officer/auditor.*		

6.	लाइसेंस का दायरा/**Scope of the Licence:**	
	"Licence is granted to use Standard Mark as per IS 5672: 2026 with the following scope:	
	Name of the product	Mineral Mixtures for Supplementing Poultry Feeds
	Varieties/Type/Grades etc.	--

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN,9, BAHADUR SHAH ZAFAR
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ANNEX A
List of Test Equipment

(INDICATIVE LIST, FOR GUIDANCE ONLY)

Cl. No.	Test	Method of Test	Test Facilities
3.2	Description	-	106 microns IS sieve [see IS 460 (Part 1)]
3.4 Table 1	Moisture	IS 7874 (Part 1)	Grinder 1 mm IS Sieve Weighing balance Tared aluminium dish with a cover Air-oven Desiccator
3.4 Table 1	Calcium	IS 15121	Atomic Absorption Spectrometer with the air-acetylene flame Chemical and Reagents along with Stock solutions, Standard solutions and Blank solutions Glassware Analytical balance Incineration dishes Electric hot plate or gas burner Boiling water bath Electric muffle furnace Hollow Cathode lamps or electrode-less discharge lamps Filter paper
		IS 13433 (Part 1)	Chemical and Reagents Electric muffle furnace Incineration dishes Sintered glass filter crucible Boiling water bath Glassware Analytical balance
		EN 15621	Chemical and Reagents along with standard solutions and stock solutions Laboratory grinder Analytical balance Pressure digestion apparatus Inductively coupled plasma – Atomic Emission Spectrometer (ICP-AES) Freeze drying equipment Oven for pre-drying Electric hot plate Glassware
3.4 Table 1	Phosphorus	IS 14828	Spectrometer Glassware Ashing crucible Electric muffle-furnace

			Sand bath Chemicals and Reagents along with reference solution and standard solution
		EN 15621	Chemical and Reagents along with standard solutions and stock solutions Laboratory grinder Analytical balance Pressure digestion apparatus Inductively coupled plasma – Atomic Emission Spectrometer (ICP-AES) Freeze drying equipment Oven for pre-drying Electric hot plate Glassware
3.4 Table 1	Iron	IS 15121	Atomic Absorption Spectrometer with the air-acetylene flame Chemical and Reagents along with Stock solutions, Standard solutions and Blank solutions Glassware Analytical balance Incineration dishes Electric hot plate or gas burner Boiling water bath Electric muffle furnace Hollow Cathode lamps or electrode-less discharge lamps Filter paper
		EN 15621	Chemical and Reagents along with standard solutions and stock solutions Laboratory grinder Analytical balance Pressure digestion apparatus Inductively coupled plasma – Atomic Emission Spectrometer (ICP-AES) Freeze drying equipment Oven for pre-drying Electric hot plate Glassware
3.4 Table 1	Iodine	IS 7874 (Part 2)	Weighing balance Burette Filter Graduated flask Erlenmeyer flask Takadiastase Methyl Orange Indicator Sulphuric Acid Bromine Water Sodium sulphide solution Phenol solution Potassium iodide solution Standard sodium thiosulphate solution Starch Solution Sodium Chloride Solution Potassium Iodide Control Solution

3.4 Table 1	Copper	IS 15121	Atomic Absorption Spectrometer with the air-acetylene flame Chemical and Reagents along with Stock solutions, Standard solutions and Blank solutions Glassware Analytical balance Incineration dishes Electric hot plate or gas burner Boiling water bath Electric muffle furnace Hollow Cathode lamps or electrode-less discharge lamps Filter paper
		EN 15621	Chemical and Reagents along with standard solutions and stock solutions Laboratory grinder Analytical balance Pressure digestion apparatus Inductively coupled plasma – Atomic Emission Spectrometer (ICP-AES) Freeze drying equipment Oven for pre-drying Electric hot plate Glassware
3.4 Table 1	Manganese (Method of Test: IS 15121)	IS 15121	Atomic Absorption Spectrometer with the air-acetylene flame Chemical and Reagents along with Stock solutions, Standard solutions and Blank solutions Glassware Analytical balance Incineration dishes Electric hot plate or gas burner Boiling water bath Electric muffle furnace Hollow Cathode lamps or electrode-less discharge lamps Filter paper
		EN 15621	Chemical and Reagents along with standard solutions and stock solutions Laboratory grinder Analytical balance Pressure digestion apparatus Inductively coupled plasma – Atomic Emission Spectrometer (ICP-AES) Freeze drying equipment Oven for pre-drying Electric hot plate Glassware
3.4 Table 1	Fluorine	Annex B of IS 5470	Ion Selective Electrode Meter Single Junction Reference Electrode Solid State Fluoride Electrode Magnetic Stirrer and Stir Bars Plastic Labware Chemicals and reagents along with Reference Electrode Filling Solution, Stock solution and Standard solutions

		IS 7874 (Part 2)	Micro-burette and other glassware including distillation flasks and graduated flasks Lime water freed from Fluorine Perchloric acid solution Silver perchlorate solution Sodium hydroxide solution Alizarin Indicator solution Dilute hydrochloric acid Buffer solution - Hydroxylamine hydrochloride in water Thorium nitrate solution Standard fluorine solution Weighing balance Water-bath Muffle Furnace
		AOAC 975.08	Fluoride ion selective electrode Magnetic stirrer pH meter Chemicals and reagents along with Fluoride standard solution and working solutions Glassware
3.4 Table 1	Zinc	IS 15121	Atomic Absorption Spectrometer with the air-acetylene flame Chemical and Reagents along with Stock solutions, Standard solutions and Blank solutions Glassware Analytical balance Incineration dishes Electric hot plate or gas burner Boiling water bath Electric muffle furnace Hollow Cathode lamps or electrode-less discharge lamps Filter paper
		EN 15621	Chemical and Reagents along with standard solutions and stock solutions Laboratory grinder Analytical balance Pressure digestion apparatus Inductively coupled plasma – Atomic Emission Spectrometer (ICP-AES) Freeze drying equipment Oven for pre-drying Electric hot plate Glassware
3.4 Table 1	Acid insoluble ash	IS 14826 - Procedure B	Analytical balance Muffle furnace Drying oven Hot-plate or gas burner Boiling water bath Incineration dishes, of platinum or platinum-gold alloy Desiccator Glassware

			Chemicals and reagents
		IS 7874 (Part 1)	Dilute hydrochloric acid Weighing balance Tared porcelain, silica or platinum dish Meker burner Muffle furnace Electric air oven Watch glass Whatman philtre paper no. 42 or its equivalent Silver nitrate solution
3.5	Bacillus anthracis and Clostridum spp.	IS 7874 (Part 3)	Culture Media and Reagents along with Agar solutions (including Sheep Blood Agar), Buffer solutions and stock solutions Biosafety Level 3 (BSL-3) Cabinet Weighing Balance Water Bath Bacteriological Incubator Microscope Ice Bath Glassware PCR Machine Autoclave Hot Air Oven Horizontal Electrophoresis System Gel Documentation System

The above list is indicative only and may not be treated as exhaustive.

ANNEX – B

SCHEME OF INSPECTION AND TESTING

1. **LABORATORY -** A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

   1.1. The manufacturer shall prepare a calibration plan for the test equipment.

2. **TEST RECORDS** – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. **PACKING AND MARKING**– The Standard Mark, as given in the Schedule of the licence, shall be stencilled/printed on each container of Mineral Mixtures for Supplementing Poultry Feeds or printed on the label applied to it, as the case may be, provided always that the material in each container to which this mark is thus applied, conform to every requirement of the specification.

   3.1. Packing and marking shall be done as per the provision of the Indian Standard. In addition, the following details shall be mentioned on each container legibly and indelibly:
   a) BIS Licence No. CM/L……...
   b) BIS website details i.e. – "For details of BIS certification please visit www.bis.gov.in".

4. **CONTROL UNIT** – For the purpose of this scheme, the quantity of mineral mixture produced in a single day under similar manufacturing conditions from same raw material consignment shall constitute a control unit.

5. **LEVELS OF CONTROL -** The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

   5.1. All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. **RAW MATERIAL** – A representative sample from every consignment of bone meal, calcined bone meal, and oyster shell grit shall be tested for freedom from spores of Bacillus anthracis, Clostridium sp., and records maintained.

7. **REJECTIONS**–Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016

TABLE 1
(Levels of Control)

(1)				(2)	(3)		
Test Details				**Test equipment requirement R: required (or) S: Sub-contracting permitted**	**Levels of Control**		
Clause	*Requirement*	*Test Methods*			*No. of Sample*	*Frequency*	*Remarks*
		Clause	*Reference*				
3.1	Ingredients	*3.1*	*IS 5672*	S	-	Each consignment	Please see Sl. No. 6 of Scheme of Inspection and Testing
3.2	Description and Fineness	3.2	*IS 5672*	R	One	Each control unit	-
3.3	Freedom from adulterants, insect or visible fungus infestation and undesirable odour.	3.3	*IS 5672*	R	One	Each control unit	-
3.4 Table 1	Moisture	-	IS 7874 (Part 1)	R	One	Each control unit	-
3.4 Table 1	Calcium	-	IS 13433 (Part 1) or IS 15121* or EN 15621	R	One	Each control unit	-
3.4 Table 1	Phosphorus	-	IS 14828* or EN 15621	R	One	Each control unit	-
3.4 Table 1	Iron	-	IS 15121* or EN 15621	R	One	Each control unit	-
3.4 Table 1	Iodine	-	IS 7874 (Part 2)	R	One	Each control unit	-
3.4 Table 1	Copper	-	IS 15121* or EN 15621	R	One	Each control unit	-
3.4 Table 1	Manganese	-	IS 15121* or EN 15621	R	One	Each control unit	-

3.4 Table 1	Fluorine	-	IS 7874 (Part 2) or Annex B of IS 5470* or AOAC 975.08	R	One	Each control unit	-
3.4 Table 1	Zinc	-	IS 15121* or EN 15621	R	One	Each control unit	-
3.4 Table 1	Acid insoluble ash	-	IS 7874 (Part 1) or IS 14826*	R	One	Each control unit	-
3.5	Freedom from spores of Bacillus anthracis.	-	IS 7874 (Part 3)	S	One	Once a month	-
3.5	Freedom from spores of Clostridium spp.	-	IS 7874 (Part 3)	S	One	Once a month	-
In case of dispute, the methods indicated by '' shall be the referee method.*							

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Subcontracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.