



उत्पाद मानुयल
हेयर डाई पाउडर - विशिष्टि
10350 : 2020 के अनुसार

PRODUCT MANUAL FOR
POWDER HAIR DYES - SPECIFICATION
According to IS 10350 : 2020

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम 2018 की स्कीम-I के तहत यह उत्पाद मैनुअल प्रमाणीकरण की संचालन रीति में सुसंगतता और पारदर्शिता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेन्स/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

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

1.	उत्पाद Product	:	IS 10350 : 2020
	शीर्षक Title	:	हेयर डाई पाउडर - विशिष्टि Powder Hair Dyes - Specification
	संशोधनों की संख्या No. of Amendments	:	1 One
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	i) Unless specified otherwise all the raw materials, used in the manufacture of powder hair dye shall conform to the requirements prescribed in the relevant Indian Standards where such standards exist. "Henna (mehendi)

			powder, if used in the manufacture of powder hair dye, shall conform to IS 11142 ii) Ingredients of dye and developer shall comply with the provisions of IS 4707 (Part 1) and IS 4707 (Part 2) subject to the provisions of <i>The Drugs and Cosmetics Act</i>, 1940 and Rules, 1945 framed thereunder. iii) For safety evaluation of novel ingredients used in formulation of powder hair dye, it shall comply to IS 4011.
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	All three types of powder hair dyes, shall be drawn separately for testing to cover in the scope of the licence.
c)	नमूनेका परिमाण Sample Size	:	6 X 10 g
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-A देखें Please see Annex – A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-B देखें Please see Annex – B
5.	एक दिन में संभावित परीक्षण Possible tests in a day :		
	1. Determination of pH, 2. Determination of Dye ingredients		
6.	लाइसेन्स का कार्यक्षेत्र/Scope of the Licence:		
	IS 10350 : 2020 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्रके लिए प्रदान किया जाता है Licence is granted to use Standard Mark as per 10350 : 2020 with the following scope:		
	Name of the product	Powder Hair Dyes	
	Type	Type 1 (Black) and/or Type 2 (Brown) and/or Type 3 (Others)	

ANNEX – A

**LIST OF TEST EQUIPMENTS
TO THE PRODUCT MANUAL FOR
POWDER HAIR DYES - SPECIFICATION AS PER IS 10350 : 2020**

Major Test Equipment required to test as per Indian Standard

Sl. No.	Tests used in with Clause Reference	Test equipment
1.	pH of 5 percent solution in water [Cl 4.5, Table 1, Sl. No. (i)]	pH meter equipped with glass electrode
2.	Active matter as PPD content [Cl 4.5, Table 1, Sl. No. (ii)]	As per Annex B – - Continuous Extraction Apparatus, as in Fig. 1. - G4 Sintered Glass Crucible - Beaker, 250 ml capacity - Chloroform - Acetic Anhydride - Weighing Balance As per Annex C – - Flat Bottom Flask with Stopper, 250 ml. - Beaker, 500 ml capacity. - G4 Sintered Glass Crucible - Whatman Filterpaper-40 - Measuring Cylinder, 10 ml. - Magnetic Stirrer - Water bath - Chloroform, reagent grade - Ammonia Solution, 30 percent - Anhydrous Sodium Sulphate - acetic Anhydride As per Annex D – - HPLC with UV Detector - Volumetric Flask , 100 ml, 50 ml and 25 ml. - Glass Rod - Nylon Syringe Filter (0.45μ) - Ultrasonic Bath - Water, HPLC grade - Ammonium Acetate, analytical reagent grade - Methanol, HPLC grade - Ascorbic Acid (Vitamin C), reagent grade

		- Monoethanolamine or Ammonia, analytical reagent grade
3.	Dye ingredients [Cl 4.5, Table 1, Sl. No. (iii)]	As per Annex B, Annex C and Annex D – As given at sl. No. 2 above. As per Annex E – - HPLC as per E-2 - Volumetric flasks - Ultrasonic Bath - Sodium butane Sulphonate - Formic acid - Acetonitrile (100 percent, HPLC grade) - Water, HPLC grade - Methanol - Picramic acid standard As per Annex F – - Weighing Balance - TLC Plates, pre-coated silica gel 60 F254, 0.2 mm thickness. - TLC Apparatus/Beakers, 250 ml (narrow). - Iodine Chamber - Test Tubes with Stoppers - Pipette, 10 ml. - Syringe, 5 or 10 µl capacity. - Silicone Wax - Toluene, analytical reagent grade. - Ethyl Acetate, analytical reagent grade. - Methanol, analytical reagent grade. - Sodium Sulphite, analytical reagent grade. - Monoethanolamine (MEA) - Standards, expected dye precursors/ingredients in the respective shade being analyzed.
4.	Heavy Metals (as Pb) [Cl 4.5, Table 1, Sl. No. (iv)]	- Nessler Cylinders, 50-ml capacity. - Dilute Hydrochloric Acid, approximately 5 N. - Dilute Acetic Acid, approximately 1 N. - Hydrogen Sulphide Solution, standard. - Standard Lead Solution - Weighing balance - Crucible - Hot Plate - Muffle Furnace

5.	Arsenic (as As ₂ O ₃) [Cl 4.5, Table 1, Sl. No. (v)]	- Mixed Acid as per H 2.1 - Ferric Ammonium Sulphate Solution - Concentrated Hydrochloric Acid - Stannous Chloride Solution - Nessler Cylinders, 50-ml capacity. - Dilute Hydrochloric Acid, approximately 5 N. - Dilute Acetic Acid, approximately 1 N. - Standard Lead Solution - Weighing balance - Crucible - Hot Plate - Muffle Furnace - Gutzeit bottle - Lead Acetate Solution - Lead Acetate Paper Strips - Absorbent Cotton wool impregnated with Lead acetate - Mercuric Bromide Solution - Sensitized Mercuric Bromide Paper Strips - Dilute Sulphuric Acid - Stannous Chloride Solution - Potassium Iodide Solution - Zinc granules - Arsenic trioxide
6.	Misc.	Other standard laboratory glassware, equipment and reagents

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

ANNEX -B
SCHEME OF INSPECTION AND TESTING
TO THE PRODUCT MANUAL FOR
POWDER HAIR DYES - SPECIFICATION AS PER IS 10350 : 2020

- 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 and implement a calibration plan for the test equipments.
- 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 marked on the container or the label applied to it provided always that material so marked conform to requirements of the specification.
 - 3.1** Packing and Marking shall be done as per the provisions of the Indian Standard. In addition, the following shall be incorporated on each container:
 - i) BIS Licence Number CM/Land
 - ii) 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, Powder hair dyes of one type blended at a time shall constitute one 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. 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
(Para 5 of the Scheme of Testing and Inspection)

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Description	4.1	IS 10350	R	One	Each control unit	
4.2, 4.3, 4.4	Ingredients	4.2, 4.3, 4.4	-do-	S	The manufacturer shall declare the formulation of the product to BIS (indicating the ingredients used) indicating compliance of ingredients to the IS. As and when any novel ingredient is added in the formulation, the same shall be declared by the manufacturer to BIS indicating compliance to the IS. Conformity of the ingredients to the requirement of the specification may be established through either of the following or a combination of the same (No testing is required if the material is ISI marked) : i. Test report from a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau ii. Material manufacturer’s test certificate iii. In house factory test report		
4.5, Table 1	Requirements for Powder hair Dye						
i)	pH of 5% solution in water	Annex A	IS 10350	R	One	Each control unit	
ii)	Active matter (as PPD Content)	Annex B or D or C as applicable	-do-	R	One	-do-	
iii)	Dye ingredients	Annex B or C or E or F or D as applicable	-do-	R	One	-do-	
iv)	Heavy metals (as Pb)	Annex G	IS 10350	S	One	Every Six Months	

v)	Arsenic (as As ₂ O ₃)	Annex H	IS 10350	S	One	Every Six Months	
4.6, Table 2	Requirement for dye ready for use						
i)	Calculated active matter (as PPD) in the solution after recommended dilution with water/diluent	4.6.1	IS 10350	R	One	Each control unit	

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. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled 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.