उत्पाद मानुयल
N-(1,3-Dimethylbutyl)-N~-Phenyl paraphenylenediamine (6 PPD)
IS 14128:1994केअनुसार

PRODUCT MANUAL FOR
N-(1,3-Dimethylbutyl)-N~-Phenyl paraphenylenediamine (6 PPD)
According to IS 14128:1994

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन मे रीति और पारदर्शिता के सुसंगता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्सधारियों द्वारा संदर्भ सामग्री के रूप मे उपयोग किया जाएगा।बीआईएस लाइसेन्स/प्रमाणपत्र 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 14128:1994
	शीर्षक **Title**	:	N-(1,3-Dimethylbutyl)-N~-Phenyl paraphenylenediamine (6 PPD)
	संशोधन संख्या **No. of amendments**	:	Nil
2.	नमुनाकरण दिशानिर्देश **Sampling Guidelines**		
a)	कच्चा माल **Raw material**	:	कोईविशेषआवश्यकतानहींहै No specific requirement
b)	समूहिकरण दिशानिर्देश **Grouping Guidelines**	:	लागूनहीं Not Applicable
c)	नमूने का परिमाण **Sample Size**	:	200 grams from control unit, 50gms approved sample.
3.	परीक्षण उपकरणो की सूची **List of Test Equipment**	:	कृपयाAnnex-Aदेखें Please refer Annex –A

4.	निरीक्षण व परीक्षण स्कीम **Scheme of Inspection and Testing**	**:**	कृपयाAnnex-Bदेखें Please refer Annex - B
5.	एक दिन में संभावित परीक्षण **Possible tests in a day**	**:**	All except compounding performance
6.	लाइसेन्स का कार्यक्षेत्र/**Scope of the Licence :**		
	IS 14128:1994 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है Licence is granted to use Standard Mark as per IS 14128:1994 with the following scope:		
	उत्पाद का नाम **Name of the product**		N-(1,3-Dimethylbutyl)-N~-Phenyl paraphenylenediamine (6 PPD)

ANNEX A

List of Test Equipment

Major test equipment required to test as per the Indian Standard

Sl. No. & Date	Test Equipment	Tests Used in with clause reference
1	Oven Flat bottom dish Dessicator Thermometer	Heat loss, IS 14128:1994 Annex B
2	Weighing balance Drying oven and/or Furnace Porcelain crucible Desiccator	Ash content, 10 of IS 7086 (Part 1) :1973
3	Melting point determinationapparatus	Melting point, A-3 of IS 6918: 1972 (Annex C of IS 6918:2002)
4	Gas Chromatograph equipped with thermal conductivity detector, integrator and recorder	Assay, IS 14128:1994 Annex A
5	Standard Copper Solution Sodium diethyldithiocarbamate Ammonium hydroxide Ferric Chloride solution Nessler cylinders	Copper content, 12 of IS 7086(Part I):1973
6	Standard Potassium Permanganate solution Nessler cylinder Sulphuric acid LR Nitric acid AR Phosphoric acid 85% Potassium periodate-Solid Sodium Carbonate-Anhydrous Platinum Crucible Weighing Balance Nessler cylinders	Manganese content,11 of IS 7086(Part I):1973

7	Banburry Mixing mill Hydraulic steam heated Curing press Viscometer Rheometer Tensile tester Hot air Ageing oven	Compounding & Testing, IS 14128:1994 Annex C

The above list is indicative and may not be taken 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 equipments.

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

3. PACKING AND MARKING –Standard Mark as given in the Schedule of the Licence shall be marked on each package containing the productprovided always that the product thus marked conforms to all the requirements of the Indian Standard.

3.1 Packing and Marking of the material shall be done as per the provisions of the Indian Standard. Details of BIS website www.bis.gov.in shall also be marked on each package.

4. CONTROL UNIT –For the purpose of this scheme, the entire quantity of the material produced in a continuous run of not more than 8 hours 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. 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**		
Cl.	**Requirement**	**Test Method**			**No. of Sample**	**Frequency**	**Remarks**
		Clause	**Reference**				
3.1	Description	3.1	IS 14128	**R**	Adequate visual inspection		
3.2	Assay, N-(1,3-Dimethylbutyl)-N'-Phenyl Paraphenylenediamine content, percent by mass	Annex-A	IS 14128	**R**	1	Once in a week	
3.2	Melting point (final)	Annex-C	IS 6918:2002	**R**	1	Once in a week	
3.2	Heat loss at 70^0C - 3 hrs percent by mass	Annex-B	IS 14128	**R**	1	Once in a week	
3.2	Ash content, percent by mass	10	IS 7086 (Part 1): 1973	**R**	1	Once in a week	
3.2	Copper content, percent by mass	12	IS 7086 (Part 1) : 1973	**R**	1	Once in a week	
3.2	Manganese content, percent by mass	11	IS 7086 (Part 1): 1973	**R**	1	Once in a week	
3.3	Compounding performance requirement	Annex-C	IS 14128	**R**	1	Once in 3 months	Approved sample shall be used for compounding and testing comparison.

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.