



उत्पाद मानुयल

पेट्रोलियम नेफ्था - विशिष्ट IS 17794 : 2022 के अनुसार Specification for Petroleum Naphtha According to IS 17794:2022

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन (विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरणके प्रचलन में रीति और पारदर्शिता के सुसंगत सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेंस धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेंस/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 17794:2022
	शीर्षक Title	:	PETROLEUM NAPHTHA- SPECIFICATION
2.	संशोधन संख्या No. of Amendments	:	0
	नमुनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No Specific Requirement
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	Samples of 3 Grades namely Light Naphtha, Heavy Naphtha and Full range Naphtha are required to be tested separately to cover them in the scope of licence

c)	नमूनेका परिमाण Sample Size	:	2 Ltr
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX –A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX –B
5.	एक दिन में संभावित परीक्षण Possible tests in a day :		
	1. Description 2. Appearance 3. Color(saybolt) 4. Density 5. Total Sulphur 6. Distillation 7. Reid Vapor Pressure 8. Residue on evaporation 9. Total Parrafin 10. Olefins 11. Naphthenes and Aromatics		
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence :		
	IS 17794:2022 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 IS 17794 : 2022 with the following scope:		
	उत्पाद का नाम Name of the product		PETROLEUM NAPHTHA
	Type		LIGHT NAPHTHA/HEAVY NAPHTHA/FULL RANGE NAPHTHA

ANNEX A

List of Test Equipment

Major test equipment required to test as per the Indian Standard

Sr. No.	Tests used in with Clause Reference	Test Equipment
1	Color (Saybolt) Table 1 SI No.ii)	Saybolt Chromometer Color Reference Standard Acetone DM Water Beaker
2	Density Table 1 SI No iii)	<u>IS 144:Part 167</u> Density Meter Circulating constant-Temperature bath, temperature sensor, homogenizer, flushing solvent, Amm onium peroxydisulfate, concentrated sulphuric acid, Calibration Fluids Density Reference Standard Calibration Fluid Water Air for Calibration With Pump Distilled Water Volumetric flask <u>IS 1448:Part 16</u> Hydrometer Constant temperature bath thermometer
3	Distillation Table 1 SI No.v)	Distillation Unit as per IS 1448:Part 18 Distillation Flask Graduated Cylinder Condenser &Cooling Bath Barometer thermometer High Purity toluene Distillation Flask 125ml
4	Reid vapour pressure Table 1 SI No. vi)	Reid vapour-pressure apparatus Refrigerator constant Water Bath

5	Residue on Evaporation Table 1 SI No. vii)	Glass thermometer DM Water Acetone Beaker Glass Beaker Porcelain Dish Weighing balance Cooling Vessel Evaporation Bath Thermometer Steam supply Steam super heater Graduated Cylinder Forceps (Stainless Steel , Spade Ended), Sintered glass filter funnel (150 and 250 micro metre) Flow indicator Fuming Hood Hot Air Oven Heptane Toluene Acetone Gum Solvent Mixture Chromic Acid Pipette Air supply, filtered Detergent cleaning solution Air flow indicator
6	Total Sulphur Table 1 SI No.iv)	Dibenzothiophene/ Dibutylsulfide/ Thionaphthene (Benzothiophene)/ Dibutyldisulfide Certified reference materials Energy-dispersive X-ray fluorescence analyser, Analytical balance (LC 0.1mg), Magnetic Stirrer Flasks Diluent oil
7	Total Paraffins Table 1 SI No.viii) Olefins	Hydrogen Helium/Nitrogen Compressed Air Gas Chromatograph equipped with Gc

	Table 1 SI No ix) Naphthenes and aromatics Table 1 SI No x)	Columns Data System, FID, Splitter Injector, Injection device Syringe, Utility Gas Cylinders-Carrier, Makeup and detector gas, PTFE vials, Refrigerator and Microsyringe Volumetric Flask Beaker Glass syringe
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ANNEX B

SCHEME OF INSPECTION AND TESTING FOR CERTIFICATION OF PETROLEUM NAPHTHA ACCORDING TO IS 17794:2022

1.LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in 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 incorporated legibly and indelibly on containers provided always that material so marked conform to requirements of the specification.

3.1 **Packing** shall comply with the requirements of clause 6.1 of IS 17794:2022.

3.2 **Marking** shall be done as per the provisions of IS 17794:2022 and shall comply with the requirements of clause 6.2 of the IS. 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”

c) Grade of Naphtha.

Each road container shall have the caution label ‘FLAMMABLE’ together with the corresponding symbol for labelling of dangerous goods as given in IS 1260 (Part1).

3.3 For transportation purposes, in tank cars and tank trucks, the Standard Mark as given in Schedule of the licence and Licence Number (i.e. CM/L.....) shall be incorporated on a test certificate to be provided along with each tank car/tank truck as per the format at **Appendix-1** enclosed, provided always that the product thus marked conforms to all the requirement of the specification. Packing shall be done as per provisions of Indian Standard and the details as per Cl 6.2.2 of IS 17794:2022 shall also be indicated on the test certificate.

4. CONTROL UNIT –For the purpose of this Scheme, the entire quantity of material of the same grade manufactured continuously in a day from the same source of Raw material 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

(1) Test Details				(2) Test equipment requirement R: required (or) S: Sub-contracting permitted	(3) Levels of Control		
Sr No	Requirement	Test Method Clause	Reference		No. of Sample	Frequency	Remarks
1. 2. 3.	Description Appearance color	Clause 5.1 Clause 5.3	IS 17794:2022 IS 17794:2022 IS 1448 (Part 14)	R R R	one one one	Each Control unit Each control unit Each control unit	As agreed between manufacturer and Purchaser.
4.	Density		IS 1448 (Part 167/ part 16)	R	one	Each control unit	
5.	Total Sulphur		IS 1448 (Part 153)/ ISO 8754	R	one	Each control unit	
6.	Distillation		IS 1448 (Part 18)	R	one	Each control unit	
7.	Reid Vapor Pressure		IS 1448 (Part 39)	R	one	Each control unit	
8.	Residue on Evaporation		IS 1448 (Part 29)	R	one	Each control unit	As agreed between manufacturer and Purchaser.
9.	Total Parrafin		IS 1448 (Part 181)	R	one	Each control unit	
10	Olefins		IS 1448 (Part 181)	R	one	Each control unit	
11	Naphthenes and Aromatics		IS 1448 (Part 181)	R	one	Each control unit	As agreed between manufacturer and Purchaser.

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 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.

Appendix-1

TEST CERTIFICATE

XYZ COMPANY (REGISTERED OFFICE ADDRESS AND WORKS ADDRESS)

TEST CERTIFICATE FOR PETROLEUM NAPHTHA-

TEST CERTIFICATE NO. _____ DATED _____

SUPPLIED TO M/s _____ (Name and Address of Consignee)

It is certified that the material described below fully conforms to IS 17794:2022.

The properties of the product, as tested in accordance with the Scheme of Inspection and Testing contained in the BIS Certification Marks License No. CM/L _____ are as indicated below against each order no. etc.

(PLEASE REFER TO IS 17794:2022 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Order no and date	Name of the material	Test	Requirement	Observed value	Control Unit/ Batch Number	Month and Year of manufacture	Quantity	Remarks
		Description						
		Appearance						
		color						
		Density						
		Total Sulphur						
		Distillation						
		Reid Vapor Pressure						
		Residue on Evaporation						
		Total Paraffins						
		Olefins						
		Naphthenes and Aromatics						

The material supplied conforms to specified requirements of IS 17794:2022.

(Signature)
For XYZ Company

REMARKS:

Tank Car / Tank Truck / Container ship no.

MATERIAL SUPPLIED BY

Name and Address of manufacturer:

Recognized Trade Mark if any:

Caution label 'FLAMMABLE' together with the corresponding symbol for labelling of dangerous goods as given in IS 1260 (Part1).".

"For details of BIS certification please visit www.bis.gov.in"