



CORPORATE PURCHASING SPECIFICATION

AA54411

Rev No.01

PREFACE SHEET

NITROGEN GAS – 99% PURE

FOR INTERNAL USE ONLY

REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Comparable Standards:

1. INDIAN : IS: 1747 – 1972

Suggested /Probable Suppliers and Grades

1. M/s. INDIAN OXYGEN LTD. : --
2. M/s KAPOOR AIR, NEW DELHI : --
3. Refer plant Vendors List : --

User Plant References:

1. HYDERABAD : IS 1747
2. BHOPAL : BP 54499
3. HARDWAR : IS 1747
4. TIRUCHY : IS 1747

Revisions:
Cl 32.11.31 of MOM of MRC-CPO

APPROVED:
INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(CPO+NM)

Rev No.01	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1 st Issue
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NITROGEN GAS – 99% PURE

1.0 GENERAL:

This specification governs the quality requirements of Pure Nitrogen gas, having a purity of 99%, minimum.

2.0 APPLICATION:

Used for providing inert atmosphere above oil in instrument and power transformers during shipping, etc.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

The material shall comply with the requirements of the following national standard and also meet the requirements of this specification.

IS: 1747 - 1972, 99% pure | Nitrogen

4.0 TEST SAMPLES:

One gas cylinder shall be selected at random from the lot for testing oxygen and moisture contents.

5.0 PROPERTIES:

When tested as per the test methods shown against each, the gas shall show the following properties:

5.1 Oxygen (Appendix A-2 of IS:1747 or Gas Chromatograph):

10,000 ppm (1%) max., by volume.

5.2 Moisture (Dew point):

50 pm, max., by volume.

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6.0 TEST CERTIFICATES:

Three copies of test certificates shall be supplied along with each consignment, giving the following information:

In addition, the supplier shall ensure to enclose one copy of the test certificate along with the despatch documents to facilitate quick clearance of the material.

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BHEL Order No.

Batch / Lot No.

Supplier's/ Manufacturer's Name and Grade

Test results of clause 5.0

7.0 PACKING & MARKING:

The gas shall be supplied compressed in cylinders. The design of cylinders, pressure of gas in cylinders, packing, marking, painting, labelling and transport of cylinders shall be in accordance with the 'Gas Cylinder Rules - 1940' of the Government of India with such modifications as may be ordered from time to time by the Chief Inspector of Explosives, Government of India or other duly constituted authority.

All cylinders shall be securely tagged with the following information:

AA54411: NITROGEN GAS – 99% PURE

BHEL Order NO.

Supplier's / Manufacturer's Name & Grade

No. of Cylinders

Net & Gross weight

8.0 ENVIRONMENTAL REQUIREMENTS:

The supplier shall furnish Material Safety Data Sheet (MSDS) covering all information relating to human safety and environmental impacts of the hazardous materials particularly during their transportation, storage, handling and disposal along with each supply.

Each container shall be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc. as applicable.

9.0 REFERRED STANDARDS (Latest Publications Including Amendments):

- 1) IS: 1747