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CORPORATE PURCHASING SPECIFICATION

AA54103

Rev No. 04

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HYDRO CHLORIC ACID - TECHNICAL

1 GENERAL

This specification governs the quality requirements of Hydrochloric acid, technical grade.

2 APPLICATION

For use in laboratory.

3 COMPLIANCE WITH NATIONAL STANDARDS

The acid shall comply with the requirements of the following National standard and also meet the requirements of this specification:

IS 265-1993: Hydrochloric acid

4 TEST SAMPLES

As per IS 265

- 4.1 To draw a representative sample, the contents of the container selected for sampling shall be mixed as thoroughly as possible by shaking or stirring or both or by rolling, so as to bring all portions into uniform distribution.
- 4.2 The samples shall be taken in a suitable, clean, dry air-tight glass bottle of one litre capacity. It should be almost but not completely filled by the sample.
- 4.3 In case of failure of first sample, two samples shall be drawn from other two drums of the same consignment at random and failure of the second sample in complying with the specification will lead to the rejection of the whole consignment.

5 VISUAL INSPECTION

The material shall be a clear, colourless or light yellow liquid free from dirt and other visible impurities.

6 CHEMICAL PROPERTIES

When tested as per the relevant clauses of IS 264, the acid shall show the following properties:

- | | | |
|---|---|----------------------|
| i) Total acidity (as HCl) | : | 30%, min. by mass |
| ii) Residue on ignition | : | 0.1%, max. by mass |
| iii) Sulphates (as H ₂ SO ₄) | : | 0.1%, max. by mass |
| iv) Iron (as Fe) | : | 0.005%, max. by mass |

Revisions:
As per clause 44.3.a) of MOM of MRC-CPO+NM

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

Rev No.04

Amd No.

Reaffirmed

Prepared
HEP, Bhopal

Issued
Corp.R&D

Dt. of 1st Issue
01-01-1985

Dt:26-08-2011

Dt:

Year:2015

**7 TYPE TESTS**

Whenever specified, the following tests shall be conducted and the acid shall show the properties mentioned below:

- | | | |
|--------------------------------------|---|----------------------|
| i) Free chlorine and Bromine (as Cl) | : | 0.001% max., by mass |
| ii) Mercury (as Hg) | : | 3 ppm max., by mass |
| iii) Sulphite (as SO ₃) | : | 0.05%, max., by mass |

8 TEST CERTIFICATE

Three copies of the test certificates shall be supplied unless otherwise started in the order. In addition, the supplier make sure to send one copy of test certificate along with despatch documents to facilitate quick clearance of the material.

The test certificates shall bear the following information:

BHEL's Reference:

BHEL Order No:

AA54103, Rev No. 04: HYDRO CHLORIC ACID - TECHNICAL

Supplier's Reference:

Manufacturer's/Supplier's Name:

Batch / Lot No.:

Date of manufacture and expiry, if any

Test Results:

Results of clauses 5 and 6.

9 PACKING AND MARKING

As per IS 265

10 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.

11 REFERRED STANDARDS (Latest Publications Including Amendments)

NIL