



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
NEUTRAL GROUNDING RESISTORS

NPCS-MS-EL-11

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SCOPE

1.1

This standard covers the minimum requirements for the design, supply of material, construction, and tests of neutral grounding resistors.

1.2

Site conditions and system conditions will be specified in the requisition.

1.3

This standard supplements the data sheets on which the operating conditions and special requirements are listed in detail.

1.4

In case of conflict between documents listed below, the ones appearing first in sequence of this listing will precede over the following ones.

a) Purchase order.

b) Data sheets.

c) This standard.

d) Other standard and specification referred to.

e) Vendor drawings.

1.5

All documents shall be issued, using SI metric system of measurement according to NPCS-ES-GN-03.

1.6

The English language shall be used for all correspondence documents, catalogues, drawings and nameplates. All other languages are not acceptable.

1.7

In the reference number of this standard purchaser means National Petrochemical Company of Iran "NPC".

2

STANDARDS AND CODES

The neutral grounding resistors shall be designed, manufactured and tested in accordance with latest edition of the following Standards and Codes.

2.

For equipment manufactured in Europe:

- IEC

International
Electrotechnical
Commission.

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IEC 439 :

Low Voltage Switchgear
and Control Gear
Assemblies.

2.2

For equipment manufactured in USA:

- NEMA

National Electrical
Manufacturer's
Association.

- NEC

National Electrical
Code.

- NFPA

National Fire
Protection Association.

2.3

For equipment manufactured outside Europe and USA
either of the standards and codes specified in clause
2.1 or 2.2 above shall be met.

The equipment as a whole may conform with the national
standards of the country of manufacturer which
provided these standards are on the basis of IEC
recommendations.-

Vendor shall state in the quotation, the standards to
which the equipment conforms. If these are the
national standards, then vendor shall state in the
quotation, the deviations (if any) from the relevant
IEC recommendations.

SERVICE CONDITIONS

3.1

Unless otherwise stated in the requisition, the
resistors will be installed indoor in substation room,
which will be ventilated and air conditioned to
provide clean, dust free air. Ambient temperature
will be within the limits of IEC 439.

3.2

Climatic conditions, design temperature, relative
humidity, atmospheric details and altitude will be
specified in the requisition. Vendor shall ensure and
certify that equipment are suitable for the specified
climatic conditions:

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