

# **Machinery and Electrical Equipment Safety (Omnibus Technical Regulations) Order, 2024**



**Bureau of Indian Standards**

# Structure of Presentation

- **Introduction**
  - About BIS
  - OTR order
- **Compliance**
  - Prior Registration
  - **Technical file** preparation
- **Certification**
  - Application submission, Specification selection
  - Certification Process
- Interaction - **Q&As**

# BIS - National Standards Body of India



## **Registered society**

Indian Standards  
Institution 1947

## **Product certification**

Indian Standards  
Institution  
(Certification  
Marks) Act, 1952

## **Statutory body**

BIS Act 1986  
BIS (Certification)  
Regulations 1988

## **National Standards Body**

BIS Act 2016  
BIS (Conformity Assessment)  
Regulations 2018

# The BIS Act, 2016

- National Standards Body - Harmonious development of the activities of:
  - Standardisation
  - Conformity assessment for goods, articles, processes, systems and services
- Provisions to undertake certification activities for quality assurance
- Section 16 - Authorises the Central government to issue Technical Regulations/QCOs
  - Protection of human, animal or plant health
  - Safety of the environment
  - Prevention of unfair trade practices
  - National security
- Section 17 - Prohibition to manufacture, import, distribute, sell, hire, lease, store or exhibit for sale



# Details about the OTR Order

- Notified by the Ministry of Heavy Industries
  - 28th August 2024
  - Available on the [Ministry website](#) and [BIS website](#)
- Commencement and application at Present
  - Due to come into force after 1 year from notification
  - Apply to machines and electrical equipment and their assemblies, sub-assemblies and components listed in the **1st Schedule**
  - Doesn't apply for Exports and
    - Construction equipment covered in CMVR Rules issued by M/o Road Transport & Highways
    - Goods covered under QCO orders issued under the BIS Act

# Schedules in the OTR Order

- Three schedules
  - **1st** - List of Machinery and Electrical Equipment covered under OTR
  - **2nd** - Type B Standards (Generic Safety Standards dealing with one safety aspect or more than one type of safeguard that can be used across a wide range of machinery)
  - **3rd** - Type C Standards (Machine Safety Standards dealing with detailed safety requirements for a particular machine or group of machines)
- Type A Standard - Listed in the OTR
  - IS 16819:2018/ISO 12100:2010 (Safety of Machinery General Principles for Design - Risk Assessment and Risk Reduction)
- If a Type C standard deviates from technical provisions dealt with by Type A or Type B standard, Type C standard takes precedence


# Prior Registration

- Prior Registration - General information of **manufacturer** such as
  - Name, Address (Factory & Office), City, Location
  - Contact details (email, office number, phone number)
  - Contact details of person in India - **optional**
  - Details of Management and contact person
- Register with information specific to the Machinery and Electrical Equipment
  - As listed in 1st schedule of OTR
  - Name/type and Variety

# BIS website

- <https://www.bis.gov.in/> >> Conformity Assessment >> Scheme-X Certification

← → ↺ bis.gov.in/certification-process-4/ ☆ ⬇ ⚠ ⋮

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The National Standards Body of India

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**Product Certification**

- Overview
- Products Under Compulsory Certification
- Product Certification Process
- Product Specific Information
- Fee
- List Of Products Under Simplified Procedure
- Testing Facilities
- Apply Online
- Online Information
- FAQ
- Contact Us

**Systems Certification**

- Overview
- Certification Process »
- MSCD Login
- Apply Online
- Licensee »
- Auditors
- Auditor HandBook
- Complaints
- Appeals
- FAQ
- Contact Us

**FMCS**

- Overview
- Certification Process »
- Inclusion
- Renewal
- Forms & Formats
- Laboratories
- Licensee
- Fee
- Ministry Login
- FAQ
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**Registration Scheme**

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- BIS Recognised Labs
- Instructions For Applying Online
- Inclusion
- Renewal
- Registered Manufacturers
- FAQ
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**Scheme-X Certification**

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🔍 Testing Facilities

👉 Apply Online

🔑 Online Information

 BIS Login

# BIS website

- <https://www.bis.gov.in/> >> Conformity Assessment >> Scheme-X Certification >> Link to Registration Portal (OTR)

← → ↻ bis.gov.in/scheme-x-certification/registration-portal-otr/ ☆ ⬇ A A A A A 🔍

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🏠 Home » Scheme-X Certification » Registration Portal (OTR)-

## Registration Portal (OTR)

- ▶ [Link for Registration for OTR \(Domestic Manufacturers only\)](#)
- ▶ [OTR Registration Steps](#)
- ▶ [Link for Registration for OTR \(for Foreign Manufacturers only\)](#)

 **Digital India**  
Power To Empower

 **नीति आयोग**

 **IEC**

 **FOR SAFETY**

**National Safety Council of India**  
NSCI Safety Awards

 **इसरो isro**

 **ISO**

 **BIS Login**

# Registration - Form

Foreign Manufacturers Certification Department (Scheme X)

Bureau of Indian Standards

Switch account

Not shared

Draft saved

\* Indicates required question

Firm Name \*

Your answer

Firm Address \*

Your answer

City \*

Your answer

Country \*

Your answer

Name of CEO/Proprietor \*

Your answer

Contact Number \*

Your answer

Email Id \*

Your answer

Name of Contact Person \*

Your answer

Contact Number \*

Your answer

Email Id \*

Your answer

Latitude of the Factory \*

Your answer

Longitude of the factory \*

Your answer

Name of Contact Person (Indian representative, if available)

Your answer

Contact Number (Indian representative, if available)

Your answer

Email Id (Indian representative, if available)

Your answer

# Select from menu and Submit

Description of Machinery and Electrical Equipment \*

Choose

!

 This is a required question

Type of Machine (Specify serial number wise in case of multiple types of machine) \*

Your answer

!

 This is a required question

Submit

Clear form

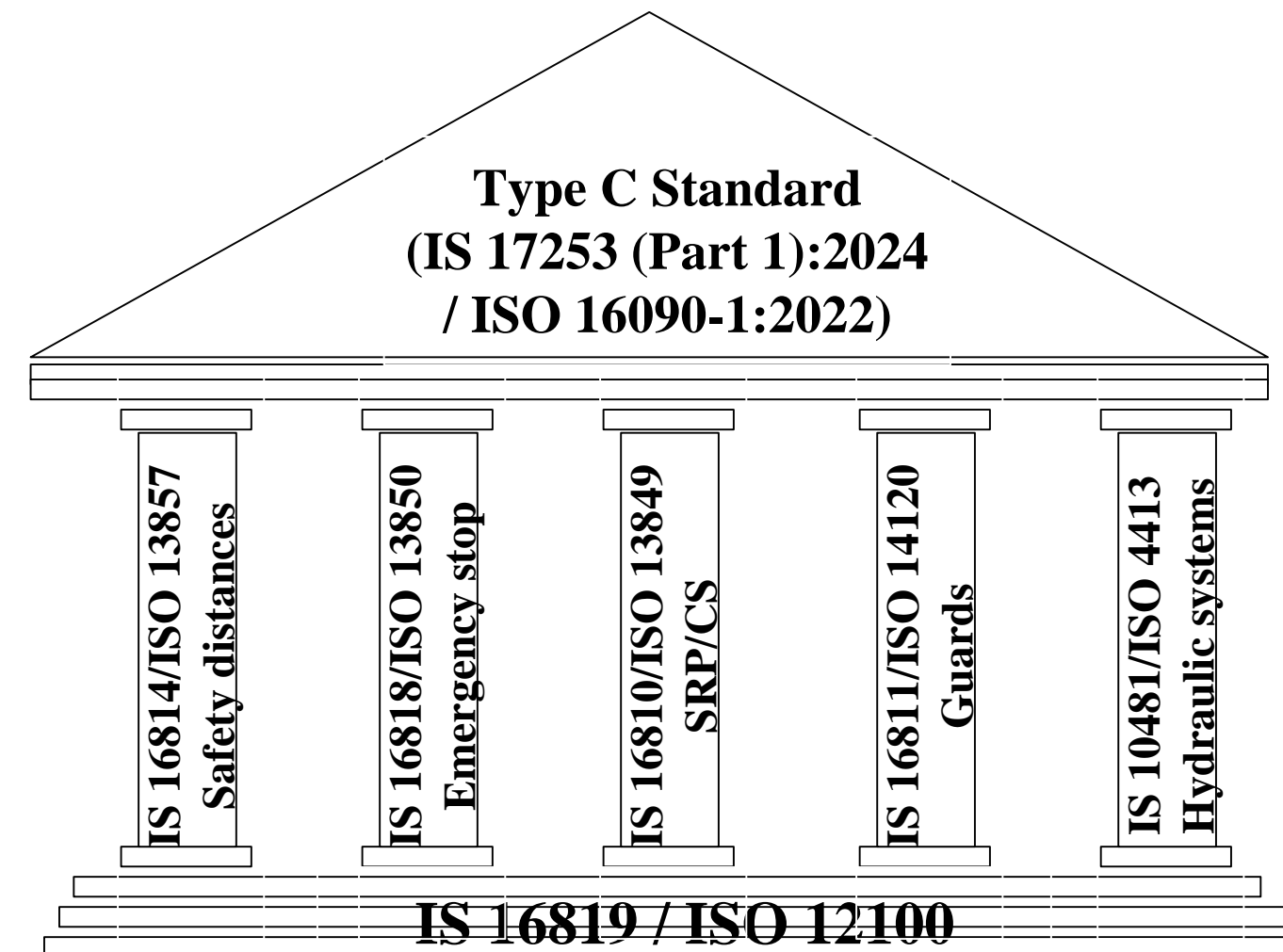
1. All types of Pumps for handling liquids, liquid elevators and (or)their assemblies /sub-assemblies /components
2. All types of compressors and(or)their assemblies /sub-assemblies /components.
3. All types of machinery for treatment of material by a process involving a change of temperature and(or)their assemblies /sub-assemblies /components
4. All types of centrifuges, filtering or purifying machinery for liquid and gas and(or)their assemblies /sub-assemblies /components
5. All types of machinery for filling, closing, sealing, labelling bottles, packing or wrapping and(or)their assemblies/sub- assemblies /components
6. All types of cranes and (or) their assemblies /subassemblies/components
7. All types of machinery for construction, earthmoving, Mining and (or)their assemblies sub- assemblies/components
8. All types of weaving machines (looms) and (or)their assemblies/ sub-assemblies / components
9. All types of machinery for making embroidery and(or)their assemblies /sub-assemblies /components.
10. All types of metal cutting machines tools covered under the heading 8456 to 8461 and(or)their assemblies /sub-assemblies/components.
11. All types of machine tools for working stone, ceramics, concrete, asbestos cement or like mineral glass and (or)their assemblies /sub- assemblies /components.
12. All types of machinery for working rubber and plastics and(or) their assemblies /sub-assemblies /components
13. All types of Machines including the machines for public works & building and the machinery & mechanical appliances having individual functions, not specified Or included
14. All types of gears and gearing, toothed wheels, chain sprocket, transmission elements ball or roller screws, gear boxes and speed changers, including torque converters An
15. All types of Rotary electrical machines such as Generator, etc. and (or) their assemblies /sub-assemblies /components.
16. All types of Diesel Generator and (or)their assemblies /sub-assemblies /components.
17. All types of Transformers and (or)their assemblies/sub-assemblies /components.

# Category 10 and 11 - 1st Schedule

10.	All types of metal cutting machines tools covered under the heading 8456 to 8461 and (or) their assemblies/ sub-assemblies/ components	8456, 8457, 8458, 8459, 8460, 8461 and 846693
11.	All types of machine tools for working stone, ceramics, concrete, asbestos cement or like mineral glass and (or) their assemblies/sub-assemblies/components.	8464 and 84669100

# Selection of Specifications - Use Standards

- Type-A standards (basic safety standards) giving basic concepts, principles for design and general aspects that can be applied to machinery;
- Type-B standards (generic safety standards) dealing with one safety aspect or one type of safeguard that can be used across a wide range of machinery:
  - Type-B1 standards on particular safety aspects (e.g. safety distances, surface temperature, noise);
  - Type-B2 standards on safeguards (e.g. two-hand controls, interlocking devices, pressure-sensitive devices, guards);
- Type-C standards (machine safety standards) dealing with detailed safety requirements for a particular machine or group of machines.



# Type C Standards - Machine Tools Safety

- Machine Tools Safety Machining Centres Milling Machines Transfer Machines: Safety Requirements
  - IS 17253 (Part 1):2024 / ISO 16090-1:2022
- Machine tools — Safety — Sawing machines for cold metal
  - IS 17254:2019 / ISO 16093:2017
- Machine tools — Safety — Turning machines
  - IS 17258:2019 / ISO 23125:2015
- Machine tools — Safety — Electrical discharge machines
  - IS 17259:2020 / ISO 28881:2013
- Safety of thermal cutting machines
  - IS 18165:2023 / ISO 17916:2016
- PGD 35 technical committee - Machine Tools, Machine Tool Elements, and Holding Devices

# Application submission with Technical File

- Form-I annexed to Scheme-X
- Technical file for product
  - Grouping based on technical criteria
- Contents below

 Product Description

 Traceability Info

 **Compliance Report**  
(in-house and/or sub-contracted)

 Specified Requirements

 Design Drawings

 Quality Assurance

 Product Photos

 Manufacturing Process

 Usage Instructions

 Manufacturer Details

 Raw Materials

 Other Requirements

# Certification under Scheme - X

- Submission of certification application by the manufacturer
  - Licence to use BIS Standard Mark or Certificate of Conformity (CoC)
- Desk evaluation of technical file submitted with application
- Inspection and evaluation through on-site visit
- Authorised representative in India - **Mandatory**
- Conformance to specified requirements - Establishment of evidence
- After establishing evidence - Decision to grant licence or CoC
- Licence - for continuous production
  - Initial - 3 to 6 years, Renewal - 3 to 6 years
- CoC - for one-time production with no renewal
- Scheme-X notification and procedural Guidelines available on BIS website

# Fee structure under Scheme - X

- Application fee for licence /CoC - ₹ 2,000
- Certification fee for licence to use BIS Standard Mark - ₹ 25,000 / year
- Certification fee for CoC - ₹ 10,000
- Fee for review of technical file - ₹ 20,000 / technical file
- Inspection fees - ₹ 20,000 / manday
- Cost for site visit - Start of journey to end of journey
- Sample procurement and testing fees - On actuals
- Fees notifications available on [BIS website](#)
- Indemnity Bond and Performance Bank Guarantee - US\$ 10,000
- Agreement with mention of authorised Indian representative

# OTR Registration Progress

- 16 Registrations
  - Category-1: 1 registration
  - Category-2: 1 registration
  - Category-5: 1 registration
  - Category-10: 4 registrations
  - Category-14: 4 registrations
  - Category-18: 2 registrations
  - 3 more registrations with multiple categories selection

# Thank You!



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