

## Quality Control

### Quality control of Household Electrical Appliances

The Chief Electrical Inspector, Industry, Energy and Labour Department, Mumbai is the appropriate Authority declared by Government of Maharashtra for implementation of quality control orders for household electrical appliances by Central Government. The certificates are issued to manufacturers of household electrical appliances after testing the quality.

Government of India has issued Four Quality Control Orders for regulations of the household Electrical Appliances, under section -3 of the essential commodities Act, 1955(10 of 1955). In order to bring awareness amongst the various concerned, certain guidelines are issued to the manufacturers, stockists, dealers, general public & prospective buyers of the electrical appliances. The orders are as below :

1. The Household Electrical Appliances (Quality Control) Order, 1981.
2. The Household Electrical Appliances (Quality Control) Order, 1988(1988 Order is super-seeded)
3. The General Service Electrical Lamps (Quality Control) Order, 1989
4. The Electrical Wires, Cables, Appliances and Accessories (Quality Control) Order , 1993 (This  
a. Quality Control order is in Supersession of Quality control Order, 1988)
5. The Electrical Wires ,Cables, Appliances and Accessories (Quality Control) Order , 2003
6. The Electrical Wires ,Cables, Appliances and Accessories (Quality Control) amended Order , 2005
7. The manner, condition and procedure for grant & renewal of manufacturer's certificate.

**A) Every applicant for grant of manufacturer's certificate should apply to the office of Chief electrical Inspector, Mumbai on letter head of the firm/company along with the prescribed form as Annexure 'IV' given below:-**

- I. Every application should be signed by the applicant or by the proprietor or by the responsible person ,along with his name and designation.
- II. On receipt of the application, Superintending Engineer Mumbai/ Pune / Aurangabad / Nagpur (Industry, Energy & Labour Department) office may call for supplementary information of documentary evidence from the applicant.
- III. On receipt of an application, the Superintending Engineer Mumbai/ Pune / Aurangabad / Nagpur may ask for documentary evidence in respect of the Manufacturer's Certificate of the said item which conforms IS also. Also evidence regarding, scheme of routine inspection & testing of the product is being in operation, which conforms to the IS.
- IV. On satisfactory tests results the inspecting officer submits its report to Chief Electrical Inspector, Industry, Energy & Labour Department, Mumbai and Appropriate Authority, through Superintending Engineer, for granting Manufacturer's Certificate.
- V. The application may be rejected by the Chief Electrical Inspector, Industry, Energy & Labour Department, Mumbai on non compliance of the required information.

**B) Grant/ Renewal of Manufacturer's Certificate (MC):-**

- I. Initially the provisional MC is granted for a period of six months and thereafter if the product is found suitable for use, it is further renewed for a period of thirty six months only.
- II. Chief Electrical Inspector, Industry, Energy & Labour Department, Mumbai and appropriate authority may, during the period of validity of MC, alter any term /condition subject to which MC has been granted.
- III. Superintending Engineer Mumbai/ Pune / Aurangabad / Nagpur recommends a case for renewal of MC to Chief Electrical Inspector, Industry, Energy & Labour Department, Mumbai and appropriate authority after preliminary enquiry and after satisfactory technical explanation from the manufacturer concerned.
- IV. A Manufacturer's Certificate unless renewed or its renewal is deferred by the Chief Electrical Inspector, Industry, Energy & Labour Department, Mumbai and appropriate authority expires at the end of the granted period.
- V. The list of electrical appliances which are not to be manufactured, stocked for sale or sold without obtaining manufacturing certificate is exhibited in Annexure 'VI'.

**C) Conditions of Manufacturer's Certificate:-**

- I. The MC No. And Logo which is printed on the product should be easily visible on the product and its packing.
- II. When a MC has been granted in respect of a product, no person other than the person in possession of valid MC shall make any public claim, through any sales, leaflets etc. that the product conforms to the relevant IS or carries MC.
- III. The holder of MC should maintain a complete record of routine test as mentioned in IS.

## ANNEXURE IV

### APPLICATION FOR GRANT OF MANUFACTURER'S CERTIFICATE FOR DOMESTIC ELECTRICAL APPLIANCES UNDER THE HOUSEHOLD ELECTRICAL APPLIANCES

#### (QUALITY CONTROL) ORDER, 1981.

- (I) Name of the manufacturer ..
- (II) Address and Tel. Nos. (i) Factory ..  
(ii) Office
- (III) Constitution whether Partnership/Proprietary ..
- (IV) Name of the manufacturing Proprietor/Partner. ..
- (V) SSI Registration No. (if registered) ..
- (VI) Name of the item(s) manufactured/sold ..

Serial No.	Name of the Appliance	Brand if any	IS to which it Confirms	Has the product been tested for Conformity to IS earlier	If agency which conducted the test
(1)	(2)	(3)	(4)	(5)	(6)

1

2

3

- (VII) Testing facilities already available ..  
(give the list of instruments available ).
- (VIII) Additional testing facilities proposed, ..  
if any, give the name of the equipment proposed to the procured.
- (IX) Whether marketing directly or through ..  
dealers, If through dealers, please give the names and addresses of dealers,  
(a)  
(b) (Attach list separately if space is not sufficient )

40 Whether holding ISI certification mark Licence, if yes, give details–

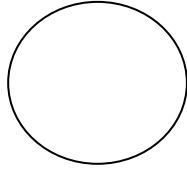
(1) Licence No. ..

(2) Validity ..

(3) Product

(X) Additional information if any–

seal



Signature of the Applicant

Status

Telephone No.

Name

**The following documents shall be attached in duplicate with the application for issue of Manufacturer's certificate under household electrical appliances Quality control order, 1981.**

- 1) Application in prescribed form,
- 2) S.S.I. Registration,
- 3) No objection certificate of local body,
- 4) List of testing instruments,
- 5) List of machines for manufacturing,
- 6) List of dealers/retailers,
- 7) Technical Manual /Instructions Manual.
- 8) ISI mark license, if any.
- 9) Latest electricity bill of the factory,
- 10) Total sanctioned load in KW, connected load in KW, average monthly consumption of electricity.
- 11) Test certificate from approved laboratory (Please see note)
- 12) Any other additional information if necessary.

Note-

- 1) After receipt of application, inspection of manufacturing place shall be done by the inspecting officer from QC office to pick up samples at random for getting the samples tested in one of the approved laboratories.
- 2) The tests to be conducted on the sample shall be intimated by this office.
- 3) The testing charges shall be borne by the applicant
- 4) The copies of test results, on receipt, from test laboratories, shall be submitted to this office
- 5) Manufacturing place shall again be visited by the inspecting officer from this office to carry out routine tests and such other tests on the product as found necessary.
- 6) The original documents shall have to be produced at the time of inspection.

**The Electrical Wire, Cables, Appliances and Accessories (Quality Control) Order , 2003 (Schedule)**

Following twenty four items of Household Electrical Appliances shall not be manufactured, stocked for sale or sold without obtaining manufactures' certificate from Appropriate Authority of the State where the item is being manufactured.

Sr. No.	Item	Standard
(1)	(2)	(3)
1.	Safety of household and similar electrical appliances- Electrical immersion water heaters	IS: 302-2-201(1992)
2.	Safety of household and similar electrical appliances-Electric Iron.	IS: 302-2-3 (1992)
3.	Safety of household and similar electrical appliances-Electric stove.	IS: 302-2-202 (1992)
4.	Safety of household and similar electrical appliances-Electric radiators.	IS: 302-02-30(1992)
5.	Switches for domestic and similar purposes.	IS: 3854:1988
6.	2 Amp Switches for domestic and similar purposes.	IS: 4949:1968
7.	Tungsten Filament General Services Lamps	IS 418
8.	Self ballasted lamp for general lighting Services: (Pt.1) safety requirements.	IS 15111 (Pt.1)
9.	Self ballasted lamp for general lighting Services: (Pt. 2) safety requirements.	IS 15111 (Pt. 2)
10.	Electrical Accessories-Circuit Breakers for over current protection for household and similar installation	IS 8828
11.	Residual current operated circuit breakers for household and similar uses (Pt.1) : Circuit Breakers without Integral overcurrent protection	IS 12640 (Pt.1)
12.	Residual current operated circuit breakers for household and similar uses (Pt.2) : Circuit With Integral overcurrent protection (RCVOs)	IS 12640 (Pt.2)
13.	Low voltage fuses for voltages not exceeding 1000 V AC or 1500-V DC (Pt.2) fuses for use by authorized person	IS 13703 (Pt.2)
14.	High voltage fuses (Pt.1): current limiting fuses	IS 9385 (Pt.1)
15.	High voltage fuses (Pt.2): expulsion similar fuses	IS 9385 (Pt.2)
16.	Low Voltage switchgear & control-(Pt.2)circuit .breakers	IS 13947 (Pt.2)
17.	Low Voltage switchgear & control-((Pt.3)contractors and fuse combination units	IS 13947 (Pt.3)
18.	Low Voltage switchgear & control-(Pt.4)contractors and motor starters	IS 13947 (Pt.4)
19.	Low Voltage switchgear & control-(Pt.5)) contractors and circuit devices & switching elements	IS 13947 (Pt.5)
20.	PVC insulated cables for working voltage upto and including 1100 V	IS 694
21.	Elastomer insulated cables (Pt.1): for working voltage upto including 1100 V	IS 9968 (Pt.1)
22.	AC Watt-hour meters, class 0.5,1 & 2 (KWH)	IS 13010
23.	AC Static Watt-hour meters, class 1 & 2 (KWH)	IS 13779
24.	AC Static transformer operated watt-hour and VAR-hour meters, class 0.2S & 0.5S	IS 14697

**The Electrical Wires,Cables, Appliances and Accessories (Quality Control) amendment Order , 2005**

Following two items of Household Electrical Appliances shall not be manufactured, stocked for sale or sold without obtaining manufactures' certificate from Appropriate Authority of the State where the item is being manufactured.

Sr. No.	Item	Standard
01	Self ballasted lamps for general lighting services: Part 1 Safety requirements.	IS 15111 (Pt.1)
02	Self ballasted lamps for general lighting services: Part 2 performance requirements.	IS 15111 (Pt.2)