

Eco-mark Scheme

ECOMARK CRITERIA FOR ELECTRIC/ ELECTRONIC GOODS (The Gazette of India, Extraordinary, Part II-Section 3(i), No. 170, May 18, 1996)

GENERAL REQUIREMENTS :

All products manufactured shall meet the requirements of following Indian Standards of BIS pertaining to quality, safety and performance :

S. No.	Items	IS Code No.
1.	Tubular Fluorescent Lamps	IS 2418(Pt-1):1977
2.	Electrical Iron	IS 366:1985
3.	Steam Iron	IS 6290:1986
4.	Immersion water heater	IS 368:1983
5.	Electric radiator	IS 369:1983
6.	Electric Stoves	IS 2994:1986
7.	Ceiling fans including regulators	IS 374:1979
8.	Pedestal fans	IS 1169:1967
9.	Table fans	IS 555:1979
10.	Exhaust fans	IS 2312:1967
11.	Desert coolers	IS 3315:1974
12.	Geysers	IS 2082:1985
13.	Electric toasters	IS 1287:1986
14.	Refrigerators	IS 1476:1979
15.	Colour Televisions	IS 10662:1992
16.	Black & White Televisions	IS 4547:1992
17.	Food Mixers	IS 4250:1980
18.	Instantaneous water heaters	IS 8978:1985
19.	Electronic fan regulators	IS 11037:1984
20.	Manually operated voltage regulator for domestic use	IS 8447:1989

21.	Automatic line voltage corrector	IS 8448:1989
22.	Servo motor operated line voltage corrector	IS 9815:1989
23.	Hot plates	IS 365:1983
24.	Single phase electric motors	IS 996:1979

- The product manufacturer must produce the consent clearance, as per the provisions of Water (Prevention and Control of Pollution) Act 1974, Water (Prevention and Control of Pollution) Cess Act 1977 and Air (Pollution and Control of Pollution) Act 1981 along with the authorisation if required under Environment (Protection) Act 1986 and rules made thereunder to Bureau of Indian Standards while applying for the ECOMARK.
- The product must display a list of critical components/cautionary notes, as applicable, which shall be decided by BIS.
- The product packaging may display in brief the criteria based on which the product has been labelled environment friendly.
- The product may be sold along with instructions for proper use so as to maximise product performance, minimise wastage and method of safe disposal of used product.
- The material used for product packaging shall be recyclable or biodegradable.
- Domestic electrical/electronic appliances shall conform to the noise levels as notified under the Environment (Protection) Act, 1986 from time to time for individual appliance, if any.

PRODUCT SPECIFIC REQUIREMENTS :

- **Television (Colour and Black and White)**

CFC and other aromatic-halogenated hydrocarbons shall not be used for cleaning purpose during manufacturing assembly.

The electro magnetic radiation from colour television shall not exceed the limit specified in IS 6842:1977 when tested as prescribed in IS 4546:1983.

The rated maximum power consumption in watts for colour and black & white television receivers shall be as specified below :

CTV – 75 W for screen size upto and including 53 cms; and 100 W for screen size above 53cm.

B&W TV – 50 W for screen size above 36 cm but below 51 cm; and 75 W for screen size of 51 cm and above"

- **Energy Efficiency/Reduced Power Consumption for Electrical Appliances (refer appendix-I)**

The product shall have atleast 5 percent improvement in energy efficiency or 5 percent reduction in power consumption over and above, the limit prescribed in the relevant Indian Standards. Alternatively equipment using solar energy shall be eligible for ECOMARK under this clause. In case where both energy efficiency and power consumption have been specified in the Indian Standards, the Ecomark criteria shall be based on improved energy efficiency. However, in cases where product of energy efficiency and power factor has been specified, 5 percent improvement in the specified limit shall be the criteria for Ecomark.

In case of refrigerators, the refrigerants and foam blowing agents shall not contain any Ozone Depleting Substances (ODS) relevant to refrigeration industry as identified under Montreal Protocol.

- **Electric type fan regulators, Manual operated voltage stabilizers, Automatic voltage stabilizers and Servo Motor operated voltage stabilizers.**

The product shall have at least 96 percent energy efficiency.

In case of electronic type fan regulators, compliance with the relevant Indian Standard together with compliance with the General Requirements prescribed under clause 1, are adequate for considering them under ECOMARK.

Note: The respective sectional committee of BIS may be requested to take up the issue for prescribing requirements for energy efficiency or power consumption or any other requirement with a view to ensure energy conservation in usage of this item.

- **Tubular Fluorescent Lamps**

Slim line fluorescent tubes with 36 watts (as against 40 watts for 38 mm dia fluorescent tubes) and 18 watts (as against 20 watts for 38 dia fluorescent tubes) rated power consumption shall be considered for Ecomark.

APPENDIX - I

LIST OF ELECTRICAL APPLIANCES COVERED UNDER CLAUSE-2.2

1	Electric iron
2.	Steam iron
3.	Immersion rod
4.	Electric radiator
5.	Electric stoves
6.	Ceiling fans
7.	Pedestal fans
8.	Table fans
9.	Exhaust fans

9.	Exhaust fans
10.	Desert coolers
11.	Geysers
12.	Electric toasters
13.	Refrigerators
14.	Electric food mixer
15.	Instantaneous water heater
16.	Hot plates
17.	Single phase electric motors

The following BIS standards have been amended incorporating the above Ecomark requirements :

1.	IS 4547:1992	Black & white television
2.	IS 8447:1989	Manually operated voltage regulator
3.	IS 8448:1989	Automotive lined voltage regulator

The incorporation of the Ecomark requirements, in the following BIS standards, are under process :

1.	IS 365:1983	Hot plates
2.	IS 368:1983	Immersion water heater
3.	IS 369:1983	Electric radiator
4.	IS 374:1979	Ceiling fans including regulators
5.	IS 555:1979	Table fans
6.	IS 1169:1967	Pedestal fans
7.	IS 1476:1979	Refrigerators
8.	IS 2082:1985	Geysers
9.	IS 2312:1967	Exhaust fans
10.	IS 2994:1986	Electric stoves
11.	IS 3315:1974	Desert coolers
12.	IS 6290:1986	Steam iron
13.	IS 9815:1989	Servo motor operated line voltage corrector
14.	IS 10662:1992	Colour television
15.	IS 11037:1984	Electronic fan regulators