

**SCIENCE & TECHNOLOGY DEPARTMENT
CHANDIGARH ADMINISTRATION**

**ORDER
The June, 2011**

In exercise of the powers conferred by Section 18 of the Energy Conservation Act, 2001 (52 of 2001), read with the Government of India, Ministry of Home Affairs Notification No.S.O. 593(E)/F.No. U-11030/1/2005-UTL dated the 24th April, 2006 Administrator of Union Territory of Chandigarh hereby issues the following directions for efficient use of energy and its conservation in the Union Territory of Chandigarh namely:-

(1) Mandatory use of Solar Water Heating Systems

1. The use of solar water heating systems will be mandatory in the following categories of buildings, namely:-
 - (i) Industries where hot water is required for processing.
 - (ii) Hospitals and Nursing homes including Government Hospitals.
 - (iii) Hotels, Motels and Banquet halls.
 - (iv) Jail Barracks, Canteens.
 - (v) Housing Complexes set up by Group Housing Societies/Housing Boards.
 - (vi) All residential buildings built on a plot of size 250 square yards and above falling within the limits of Municipal Corporation of Chandigarh.
 - (vii) All Government buildings, residential Schools, Educational Colleges, Hostels, Technical/Vocational Education Institutes, District Institutes of Education and Training, Tourism Complexes and Universities etc.
2. The Department of Science & Technology will approve source for supply and installation of solar water heating systems to ensure the installation of optimally designed quality systems as per the specifications.
3. All the line departments like Town and Country Planning Department, Urban Development Department, Public Works Department (Building and Roads), Housing Board, Public Health Department and Architecture Department will amend their rules/bye-laws within a period of two months from the date of issue of this order to make the use of solar water heating systems mandatory.

4. These departments will also designate a district and a nodal officer to monitor and report the progress of enforcement of the Administration's decisions to the Department of Science & Technology, on quarterly basis in the prescribed format. .

(2) Mandatory use of Compact Fluorescent Lamp (CFL) in Government Buildings/Government Aided Institutions/Boards/corporations.

1. The use of incandescent lamps in all new buildings/institutions constructed in Government sector/Government aided sector/Board and Corporation/Autonomous bodies is banned with immediate effect.
2. It will be mandatory that in existing buildings the defective incandescent lamps when replaced would be replaced by only compact fluorescent lamps (CFL).
3. Power utilities will affect necessary modification in the load demand notices within two months time from the date of issue of this order to promote the use of Compact Fluorescent Lamps instead of conventional bulbs while releasing/sanctioning new connections/loads.

(3) Mandatory use of Energy Efficient Tube Light System/Retrofit Assembly in Government Buildings/Government Aided Institutions/Boards/Corporations.

1. The use of 40 watt conventional tube lights with blast in all new buildings/institutions constructed in Government sector/Government aided sector/Boards and Corporations/Autonomous Bodies is banned with immediate effect. These buildings/institutions constructed in Government sector/Government aided sector/Boards and Corporations/Autonomous Bodies shall use only true light/TLD Super/T-5 or any energy efficient tube light of other brands having lumen out put of 80 lm/w or more (5 star rated).
2. It shall be mandatory that in existing buildings, the defective 40 watt conventional tube lights with blast, when replaced, would be replaced by only true light/TLD Super/T-5 or any energy efficient tube light of other brands having lumen out put of 80 lm/w or more (5 star rated).

3. It shall be mandatory that in existing building using conventional fluorescent tubes fitted with wire wound ballasts (chokes) to replace these ballasts with electronic ballasts within 12 months of issue of this order.
4. Power utilities shall affect necessary modification in the load demand notices within two months time from the date of issue of this order to promote the use of energy efficient tube light system/retrofit assembly instead of 40 watt conventional tube light with blast while releasing/sanctioning new connections/loads.

(4) Mandatory use of Compact Fluorescent lamps (CFLs) and T-5 (28 watt) Tube Lights:

- (a) The use of Compact Fluorescent Lamps (CFLs) and /or T-5 (28 watt) energy efficient tube lights and/or Light Emitting Diode (LED) lamps shall be mandatory for all electricity consumers in industrial, commercial and institutional sectors having connected load of 30 Kilo Watt or above.
- (b) In all Central Government Offices and Central Public Sector Undertaking Institutions/establishments located in the U.T of Chandigarh, the use of Compact Fluorescent Lamps (CFLs) and/or T-5 (28 Watt) energy efficient tube lights and/or Light Emitting Diode (LED) lamps shall be mandatory.

The consumers under the above categories shall have to replace all conventional bulbs and tube lights in their establishments with CFLs/Light Emitting Diode (LED) Lamps/T-5 (28 watt) tube lights on or before 30th June, 2012 at their own cost.

Note:-- In case of non-compliance of these orders, the Power Utilities Department shall have the power to disconnect the electricity connections after serving due notice after the expiry of the deadlines mentioned above. The Executive Engineer (Operation) of the Power Utilities Department shall be the enforcing authority of these orders and they shall send quarterly progress reports in this regard to the Department of Science & Technology.

(5) Mandatory use of ISI marked Motor pump sets, Power capacitor, Foot/Reflex valves in Agriculture Sector.

1. For all new tubewell connections, the use of ISI marked pump sets and accessories will be mandatory.
2. The Superintending Engineer, Electricity Circle, Chandigarh will make the amendments in the load demand notices for tubewell connections within two months time from the date of issue of this order to ensure use of only ISI marked pumps in the U.T.

(6) Promotion of Energy Efficient Building Design

1. All the new buildings to be constructed in the Government/Government Aided Sector will incorporate energy efficient building design concepts including Renewable Energy Technologies with effect from 30th June, 2012.
2. The Architecture Department will ensure the incorporation of energy efficient building design concepts in all buildings to be constructed in future in the Government/Government Aided Sector. A committee shall be formed in the Architecture Department to examine all new building plans/drawings to be constructed in the Government/Government Aided sector to ensure that all the features of the energy efficient building design concepts, have been incorporated in these.
3. The Architecture Department will designate a nodal officer for coordination and monitoring of these measures who will report the progress in this regard to the Director, Department of Science & Technology, Chandigarh Administration.

(7) Mandatory use of Energy Efficient Street Lights:

It shall be mandatory that the street lighting in all existing and new colonies and urban areas notified by the Urban Local Bodies Department, Residential sectors, Industrial estates, housing complexes, colonies and townships developed by private/semi government/autonomous institutions shall use energy efficient street lighting fixtures using T-5 tube lights/Light Emitting Diode (LED) Lamps/High Pressure Sodium Vapour (HPSV).

The above said organizations responsible for street lighting systems shall have to replace the conventional street lights or install energy efficient street lights on or before 31st December, 2012 at their own cost.

Note:-- In case of non-compliance of these orders, the Power Utilities Department shall have the power to disconnect the electricity connections after serving due notice after the expiry of the deadlines mentioned above. The Executive Engineer (Operation) of the Power Utilities Department shall be the enforcing authority of these orders and they shall send quarterly progress reports in this regard to the Director, Science & Technology.

The above orders supersede all previous orders in this matter and come into force with immediate effect.

**Secretary
Deptt. of Science & Technology,
Chandigarh Administration.**