

**GOVERNMENT OF RAJASTHAN
ENERGY DEPARTMENT**

No. F.20(6)Energy/98

Jaipur, Dated : 14.7.2010

NOTIFICATION

In supersession of this department's notification No.F.20(6)Energy/98 dated 8th November, 2007 and in exercise of the powers conferred by section 18 of the Energy Conservation Act, 2001 (Central Act No. 52 of 2001) the State Government hereby issues the following directions for the efficient use of energy and its conservation in the State of Rajasthan, with immediate effect, namely :-

1. Mandatory use of Energy Efficient Lamps

- (1) In all new buildings constructed in Government sector/Government aided sector, Board and Corporation /Autonomous bodies incandescent lamps and conventional chokes for fluorescent lights shall not be used.
- (2) In all existing Government sector/Government aided sector/Boards and Corporation /Autonomous bodies whenever defective incandescent lamps and chokes are replaced only compact fluorescent lamps (CFL) and/or Light Emitting Diode (LED) lamps and Electronic chokes are to be used. All future replacement of Florescent Tube lights in non air conditioned area to be done with energy efficient T-5 florescent Tube light only.
- (3) This Distribution Companies shall make necessary modification in the load demand notice within two months time from the date of this direction to promote the use of Compact Fluorescent lamps and/or Light emitting diode (LED) lamps and/or T-5 Florescent Tube lights instead of conventional bulbs while releasing /sanctioning new connections/load in such buildings.
- (4) All new buildings /institutions constructed in Government sector/Government aided sector/Boards and Corporation /Autonomous bodies shall also promote lighting luminaries with electronic ballast, multi Tap ballast and sensor & time controlled switching.
- (5) Star rated Tube lights only to be used per BEE notification No 2/11 (5)/03-BEE-1 dated 6th July 2009.

2. Mandatory use of Solar Water Heating Systems :

- (1) The use of solar water heating systems shall be mandatory in the following categories of buildings namely :-
 - (i) All Industrial buildings where hot water is required for processing.
 - (ii) All Government /Private Hospital and Nursing Homes
 - (iii) All Hotels, Resorts, Motels, Banquet halls, Catering Units and Industrial Canteens.
 - (iv) Residential buildings built up on a plot size of 500 Sq. Mtr. and above within the limits of Municipal Corporations/Councils including Housing Complexes set up by Group Housing societies/ Housing boards.

- (v) Hostels in educational institutions /Pvt. Hostels.
 - (vi) Barracks of Police, Paramilitary forces and jails.
 - (vii) Private /Government Guest Houses, Govt. Tourist hotels, Dak Bungalow, Circuit House and retiring rooms of Railways.
 - (viii) Health centers, Sports complex.
 - (ix) All weather swimming pools.
- (2) The capacity of the Solar Water Heating System should be commensurate with be requirement. The maximum hot water requirement should be met through the solar water heating system. The following recommendation to be followed while sizing the system.
- (a) Bathing : 15 to 25 Liters /person/ day
 - (b) Kitchen : 2 to 3 Liters/ person/ day
 - (c) Hospital: 10-15 Liters/ Bed/ day
 - (d) Industrial Canteen : 2-3 Liters/ worker/day
 - (e) Small Un starred Hotels - 30-40 Liters/ person/ day
 - (f) Starred Hotels (3 star upward) - 75-100 Liters/ person/ day
- (3) Rajasthan Renewable Energy Corporation Limited will act as the State Nodal Agency to promote and review the specifications quality of systems supplied and installation work of Solar Water Heating System in the State.

3. Promotion of Energy Efficient Buildings Design :

- (1) All the new buildings to be constructed in the Government /Government Aided sector shall incorporate Energy efficient buildings design concepts, computer energy simulation software like **eQUEST, Energy plus etc.** with immediate effect for optimizing the natural daylight use, passive cooling, renewable energy, indoor/outdoor lighting and its controls, HVAC requirements, electric power etc.
- (2) Chief Architect, Public Works Department shall ensure the incorporation of energy efficient building design concepts in all buildings to be constructed in Government/Government aided sector.

4 Promotion of Energy Efficient Air Conditioners:-

- (1) In all residential and non residential Government buildings the room air conditioners (window/split) shall be Energy Efficient room air -conditions (3 star or more star labeled as per BEE)
- (2) The automatic door closure and door/window gaps sealing arrangement should be provided in air conditioned rooms/spaces.

4. Sign Boards :

The power requirement if signage/advertisement signage should not exceed 5 Watts/ Sq. feet for internally illuminated signage and 2.5 Watt/Sq. feet for externally illuminated signage.

5. Promotion of Energy Efficient Distribution Transformer :

As per the Bureau of Energy Efficiency (BEE), Notification No. 2/11(5)/03-BEE-3 Dated : 6th July 2009 the star labeling on Distribution Transformer upto 200 KVA has

become mandatory. Therefore for all new installations of distribution transformers up-to 200 KVA only star labeled Transformers shall be used. In new residential and non-residential Government buildings Energy Efficient distribution Transformer (3 star or more star labeled) shall only be used. The distribution companies to promote the usage of stare labeled transformers (3 star or more) for their distribution systems and requirements up-to 200 KVA.

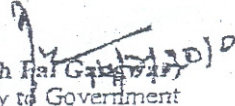
6. Promotion of Star labeled products :

The available BEE star labeled products (3 star and above) shall only be used in all residential and non-residential Government buildings. The notifications as issued by the Central Govt./Bureau of energy efficiency in this regard and/or for energy conservation are to be strictly followed.

7. Exemptions :

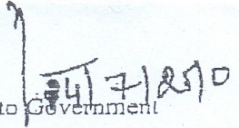
These directions shall not apply for temporary lighting and display system for VVIP function Exhibitions, National /State Ceremonies etc.

By Order of the Governor,


(Naresh Lal Gangwar)
Secretary to Government

Copy to the following for information & necessary action -

1. Secretary, Ministry of Power, Government of India, New Delhi.
2. Secretary, Ministry of New & Renewable Energy, Government of India New Delhi.
3. Director General, Bureau of Energy Efficiency, Ministry of Power, Government of India, New Delhi.
4. All Addl. Chief Secretaries/Pr. Secretaries to the Government.
5. CMD RVPN/RREC/RVUN
6. CMD JVVN and Chairman Discoms
7. MD, AVVN/JdVVN
8. Director, Printing & Stationery, Rajasthan, Jaipur with the request to get it published in the extraordinary gazette.
9. Sr. Electrical Inspector, Govt. of Rajasthan, Jaipur.
10. Guard File.


Secretary to Government