

From

The Director  
Renewable Energy, Departmental Haryana  
& HAREDA, SCO-48, Sector-26, Chandigarh

To

1. The Director  
Town and Country Planning,  
Haryana, Chandigarh
2. The Director  
Urban Local Bodies Department, Haryana  
SCO-6, 7, Sector-17B, Chandigarh
3. The Chief Administrator  
Haryana Urban Development Authority (HUDA)  
Sector-6, Panchkula
4. The Chief Administrator  
Housing Board, Haryana,  
Panchkula
5. The Managing Director  
Haryana State Industrial & Infrastructure,  
Development Corporation, Sector-6, Panchkula

**Memo No. DRE/HAREDA/2011/2646-50**  
**Dated Chandigarh, the 18-1-2011**

Subject: **MANDATORY INSTALLATION OF SOLAR WATER HEATING SYSTEMS  
IN MULTI STORIED APARTMENTS.**

Please refer to this office memo. No DRE/HAREDA/2009/4341-42 dated 22-10-2009 on the above subject vide which HAREDA norms for installation of Solar Water Heating Systems was conveyed along with the norms for Multi Storied Apartments.

It has been further observed that the HAREDA norms of 100 ltrs per flat for Two bedroom apartment, 200 ltrs per flat for three bed room apartments if individual systems are installed and 25% additional capacity if community systems are installed is not being adhered to because of insufficient shadow free space on the roof. It has also been observed that decorative structures like pergolas and cantilevers obstruct the sunshine and reduce the availability of space on roof without their own utility.

The matter has been considered by the Government and it has been decided to make the Solar Water Heating Capacity requirement for multi storied apartments as under: -

Number of stories	Flat Size	Existing Capacity of SWHS per Flat	New Capacity Norms of SWHS per Flat
G+4	2 BHK	100 lpd	100 lpd
	3 BKH and above	200 lpd	175-200 lpd

G+5 to G+9	2 BHK	100 lpd	75-100 lpd
	3 BKH and above	200 lpd	100-150 lpd
G+10 to G+14	2 BHK	100 lpd	50-75 lpd
	3 BKH and above	200 lpd	75 to 100 lpd
G+15 to G+20 & above	2 BHK	100 lpd	35 to 50 lpd
	3 BKH and above	200 lpd	35 to 75 lpd

Therefore, the real estate developers may be advised to adhere to the above mentioned norms and their building designs may be approved only if provision of adequate capacity of solar water heating system has been made in the buildings as per HAREDA norms.

The completion certificates of such buildings may be issued only after the building owner obtain installation certificates from the office of Director, Renewable Energy Department and HAREDA that the solar water heating systems has been installed as per the norms and guidelines fixed by the Department/ HAREDA. This may please be brought notice of all concerned for meticulous compliance of Government orders.

It is also requested that the builders/ real estate developers may be directed to not to construct pergolas/ structures that obstruct sunshine on the building terrace. There should be no structure above parapet wall. This may be included in the zoning plan.

Additional Director/CSE  
For Director, Renewable Energy Department,  
Haryana and HAREDA, Chandigarh.

**Endst No. DRE/HAREDA/2011/2651**

**Dated: 18-1-2011**

A copy of the above is forwarded to the following for information and necessary action please:

1. The Financial Commissioner and Principal Secretary, Town and Country Planning Department, Haryana
2. The Additional Deputy Commissioner-cum-Chief Project officer, District Rural Development Agency (DRDA), *(District Name)*.

Additional Director/CSE  
For Director, Renewable Energy Department,  
Haryana and HAREDA, Chandigarh