

**Central Public Works Department
Directorate General of Works
(S&D unit)**

File No. 3/9/2004-S&D/489

Dt New Delhi 9th September, 2004

Office Memorandum

Subject: Making Green Buildings (Eco-friendly buildings) in CPWD

His Excellency the President of India in his address on the occasion of the culminating ceremony of the sesquicentennial celebrations of the department had given a 10 point programme for CPWD to follow. One of the issues listed was to make the buildings eco friendly. This issue has been examined in the department and it has been decided to adopt the following steps immediately

1. For all buildings being planned, and as far as possible in the existing buildings, measures for rain water harvesting and waste water re-cycling will be incorporated. The recycled water will be used for flushing and horticulture purposes. In case the waste water discharge is less than 10,000 litres per day then this may not be provided. Dual piping system will have to be provided for this. These steps were hitherto mandatory for buildings being built in Delhi only as per the building bye-laws. Now they shall be incorporated in all projects being executed by CPWD in metropolitan cities.
2. For all buildings being built in the metropolitan cities i.e. Delhi, Mumbai, Chennai & Kolkatta only dual flushing cisterns will be provided.
3. For non-residential buildings being built in metropolitan cities urinals having electronic sensors and taps with electronic sensors will be provided. Use of water less urinals may also be made on experimental basis.
4. Layouts of all buildings, layout and location of windows, wall to window ratios etc. will be so planned/designed so as to allow maximum daylight to filter in and allow for natural illumination of the interiors.
5. The air-conditioning systems and electrical fittings and fixtures shall be energy efficient. It shall be ensured that all possible measures to save energy are incorporated and the energy savings made shall be properly documented and the client department informed about same.
6. Attention of all concerned is invited to gazette notification No. 773 dated 27/8/2003 issued by Ministry of E&F wherein use of fly ash

bricks bricks, in areas near the vicinity of thermal plants is mandatory. All concerned are to comply with this and in fact encourage more an more use of such bricks. Testing of bricks may be carried out as per provisions of BIS code No. 13757.

7. The architectural wing of CPWD has issued guidelines for making buildings disabled friendly. These must be kept in view while planning and executing works and the client departments sensitized to these measures.

Separate provisions will be made for these measures in the preliminary estimates being prepared and the client departments intimated about these measures specifically in the history sheet.

For buildings which have already been sanctioned but construction has not started the client departments will be intimated about the decision taken and additional estimate sent to the competent authority for obtaining approval. In case the client department does not agree then these measures may not be provided. However the client departments may be pursued to agree to these measures as they will help in reducing maintenance costs.

CE(CSQ) shall be issuing necessary correction slips for the PAR, DAR, DSR and the specifications for these items. Till such time as these are issued the Chief Engineers will incorporate financial provisions as they deem fit based on their assessment. Specifications for cisterns and urinals may be obtained from reputed manufacturers.

Regarding measures for rain water harvesting and waste water re-cycling these may be dispensed with if the site/location is such that either they are not warranted or are prohibitively uneconomical or are likely to change the soil conditions and adversely affect the foundation systems.

The steps taken in this regard will be properly documented.

The Regional ADGs will monitor the implementation of these measures in their Regions and keep DGW informed through monthly DO letters.

This issues with the approval of DGW.

**Sd/-
(V.K. Sharma)
Director(S&D)**

To

All ADGs including E-in-C PWD, Delhi
All Chief Engineers Civil & Electrical and all Chief Architects
All SEs(Civil & Electrical) and all Sr. Architects