

# SLUM REHABILITATION AUTHORITY

No. SRA/ENG/2908/Gen

Date : 10<sup>th</sup> August, 2015.

C I R C U L A R N O . 1 5 4

Sub:- Use of Shear Wall Technology for the construction of Rehab building in S.R. Scheme.

It is observed that complaints are received from Rehab Slum Scheme occupants regarding quality of the building, leakage etc. The necessary prescription of specifications, appointment of P.M.C., T.P.Q.A's have been insisted, however the complaints need to be minimized by adoption of proper technology. In order to ensure the quality control of the proposed rehab buildings in S.R. Schemes and to control & minimize repairs/maintenance after occupation, it is decided to adopt the shear wall technology for the construction of Rehab buildings in the S.R. Scheme.

In this system in place of traditional RCC framed construction of columns and beams all walls, floors, slabs, columns, beams, stairs, together with door and window opening are cast in place monolithically using appropriate grade of concrete in one operation. The specially custom designed modular formwork shall be used to facilitates the rapid construction of multiple/mass unit scale.

The monolithic RCC construction is considered as Shear Wall System. The walls are designed primarily for loading and also for in place lateral loads (shear) and out of plane(Bending) due to wind load and earthquake forces as per relevant Indian Standard Codes IS 875 (Pt.3) : 1987 and IS 1893 (Pt.1) 2002 amended upto date respectively. The structural design of plain & RCC shall be as per IS 456-2000 while IS 13920:1993 as amended upto date shall be referred for ductile detailing of reinforced concrete structure. Some of the modular formwork types like Aluminium, Plastic, Composite are available in the market suitable for adopting shear wall technology

This Shear wall technology is to be adopted in all the S.R. Schemes wherein the plot area is more than 4000 sq.mt. & IOA to Rehab buildings are not granted depending on the size of S.R. Scheme as mentioned below -

- 1) For all the S.R. Schemes having plot area more than 10000 sq.mt., it is compulsory to adopt the shear wall technology.
- 2) For all the S.R. Schemes having plot area between 4000 sq.mt. to 10000 sq.mt. the adoption of shear wall technology is optional. If the shear wall technology is not adopted the developer has to pay additional maintenance surcharge amounting to 20% of maintenance deposit.
- 3) This circular will be applicable to all new cases where LOI is yet to be issued & for all approved cases where Rehab Tenements remaining to be constructed i.e. from plinth level exceeds 300 T/s.

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Chief Executive Officer  
Slum Rehabilitation Authority