

FRWD EXPOUNDED

SYNOPSIS –

Annual budget and maintenance for housing industry is spiraling every year. It is estimated to be about Rs.150 million, only in Bombay. Absence of engineering methodology has always led to repairs being of inferior quality.

Repairs are governed by strong economic constraints. An engineering solution is sought within these constraints. Longevity of a repair solution and cost effectiveness of the methodology adopted dictates the solution.

FIRST REPAIR WORST DEFECT (FRWD) principle evolved by the author tend to achieve an engineering solution within the economic constraints.

The paper describes the methodology of investigation and rehabilitation procedure adopted for residential buildings in Bombay, India by the authors company. Proper solution and limiting of repair program. Sequence of repair is based on a regression analysis to determine the effect of defective utilities on the damage propagation. Repair systems are based on the principles of durability and sound engineering practices, which together achieve cost effectiveness. It incorporates the repair system evolved for structural repairs using a blend of old techniques and new methodologies

In India, where repair funds are scarce and unproportionally allotted FRWD works as the most cost-effective engineering solution to stabilize the structure before the funds are exhausted.