

## Glossary

$f_{ck}$  = Characteristic compressive strength of concrete in  $N/mm^2$

$f_y$  = Characteristic tensile strength of steel in  $N/mm^2$

$\gamma_m$  = partial safety factor

Partial safety factor for Concrete  $\gamma_m$ : 1.5

Partial safety factor for steel  $\gamma_m$ : 1.15

$M_u$  = Ultimate bending moment

$M_{ulim}$  = Limiting moment of resistance

$A_{st}$  = Area of tensile steel

$x_u$  = actual depth of neutral axis

$x_{u,lim}$  = limiting value of depth of neutral axis

$b$  = width of slab (1m)

$d$  = effective depth of slab

$D$  = overall depth of slab

$A_{st\ reg}$  = Area of reinforcement required

$A_{st\ pro}$  = Area of reinforcement provided

M.F = Modification factor

$f_s$  = Stress in steel