LET'S ASSUME THAT MED IS HIGHER

MEd = 1000 kNm

$$Sc = \frac{Med}{fod \cdot b \cdot 4^2} = \frac{1000 \cdot 10^6}{17 \cdot 400 \cdot 550} = 0.4861$$

BOTTOM REINFORCEMENT FOR FULL HEIGHT OF COMPRESSION ZONE

MAXIMUM CAPACITY FOR FULL HEIGHT OF COMPRESSION LONE

$$A_{51}^{1} = A_{52} = \frac{\Delta M_5 d}{49d (d-92)} = \frac{(1000 - 764) \cdot 10^6}{434.78 (550 - 50)} = 1085 \text{ mm}^2$$

REQUIRED AMOUNT OF COMPRESSION REINFORCEMENT