	000 000 000
91.	Given size 300 x 600 mm
	Given size 300 x 600 mm = 25MPa.
	a man no
	Moment og cracking.
	Mad - 1 T
	Mcr = for I
	In The state of th
=	Marita Santa
	I
	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
=)	for = 0.7 Vfck
	Modulus of fracture (fcr)
)	Hochelus of fracture (fcr) fer = 0.7. × J25
3	to = 0.7 × 5
	JCP MED X MED Y 118 DE
, 3	ter = 3.5 MPa.
	8.5×103.
3	7 = 200 = 600 300 = 300 mm.
	ME 12 read 12 was burnt of the
	T = 1300 x (600) = 5.4x10
	12 12 12 12 12 12 12 18 18 18 18 18 18 18 18 18 18 18 18 18
	11 0 5 11-3
9	$Mcr = 3.5 \times 10^{3} \times 5.4 \times 10^{9}$
	300 MMOZLA
9	Mer = 6.3 x 107 N/mm
3	N TENED TO ME TELL ALGU
	Mer = 63 kN

7	
-	
92	The contract that
	M=63KN
	At service level = 63 x0.67 = 42.21
	Partial Safety factor = 1.5.
	= 42.21
	1.5.
	= 28KN.
	The state of the s
3>	Bending steers tou & sill to
	Bending stress for 80%. for cracked moment
	M = 63KN
	M for 80 - / = 63 x 80
	18 x 8 - 1 x A 8 () 100
h	350.4KM
OH OH	1914 - JX (D)
	Bending Stress > 6 = M.y
2 113	M CAN
	=> 5 = 50.4 × 300
	5.4.x.109
	= 50.4 × 106 N/mm
	42 - 42 - 42 - 43 - 43
	= 50.4×106×300 = 2.8 N/mm

44 Given data.
Steel grade Fe-500
Effective couve: 50mm
concrete M20
b = 300 mm
D=500mm/ () 11/0 M
effective depth (d)
effective depth (d) d = 0 - effective covers d = 500 - 50 = 450 mm
d = 500 = 450 mm
24 lim = 0.46 x d
xu lim = 0.6/6 x 450 = 207mm
Mu, lim = 0.36 fck bx xulim(d-0.42)
Mu lim)
Mu, lim =0.36 x 20 x 300 x 207 x (450 -0.42
XIOTI
Mu , $lim = 0.36 \times 20 \times 300 \times 207 (450 - 86.94)$
49 + 120 x 362.00 11
TOZEZZKN-m
for Fe 500
0.133 fck bd2
Mu, lim = 0.133 x 20 x 300 x 450
Mu, lim = 161.745 × 106 N-mm
1 cm = 1/1.75 12.1
So, the mann of the
80, the man't factored moment is Mu line = 162. 22 KN meter
102, 22 KIN M



