

PROJECT:
PRESTRESSING WORK OF EMPIRE MALL BUILDING



THE FREYSSINET PRESTRESSED CONCRETE COMPANY LTD.

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PROJECT DETAILS

Name of the Project	Empire Mall Pvt. Ltd.
Location (address)	Plot No. D-5/P-80 MIDC, Chikalthana Area, Aurangabad – 431004, Maharashtra
Name of the Client Address:	M/s Prozone Enterprises Pvt.Ltd. 105/106, Provogue House, Off New Link Road, Andheri (West), Mumbai - 53 Tel.No. 30680560
Name of the Owner	M/s Empire Mall Pvt.Ltd. Plot No. D-5/P-80 MIDC, Chikalthana Area, Aurangabad – 431004
Name of the Main Consultant	Clancy Global Consulting Engineering
Name of the PT Consultant	M/s Structcon Consultants
Name of the Architect	Bobby Mukharji & Associates
Nature of Building	Commercial Mall
Date of Commencement	September'07
Date of Completion	September'08 (12 months)
Total area of PT sq.m.	Approx. 1,35,000 m²
No. of Storeys / PT slabs	LGF+GF+F.F.+Second floor+Upper 2 F (Future)

TECHNICAL DETAILS

Grid Size in “m”	(8.40 X 8.40), (10.80 X 10.80), (15.80 X 8.40)
Loadings	LL: 7.5 kN/m², SDL: 1.75kN/m²
Column capital size (Drop panel) in “mm”	{2750 X 2750 X (310+240) } {2750 X 3250 X (310+240) } {2750 X 4200 X (310 + 330) }
Slab Thickness in “mm”	240(For 8.4)/330 (for 10.8)
Pour size in “m²”	Variable (1200 to 3000)
Standards followed for design	ACI 318, IS 456
Wind load	Considered by Main RCC Consultant
Earthquake load	Considered by Main RCC Consultant
2-way slab or one way slab	Two way
Stressing from 2 ends / or one end	One end
Strand size	12.7 mm dia
Anchorage (system)	4 S 13, 5 S13
Total qty of H.T. strand in kg	Approx. 706.050 MT
Pour strip	Yes, at some places
Type of Cables	Bonded
Special features if any	Onion type anchorage used at dead end for one end stressing

SPECIAL FEATURES

Material used	12.7 mm dia H.T.strand, (75 X25) mm GI sheathing, 4S13/5S13 Anchorage
Equipment used	SC2 Jack, EOHP Model - I, Grouting Pump (J-600) J-7 Agitator, etc.
Sequence followed	1-3-2-4 (stressing)
Post Threading / Pre Threading	Pre Threading
Deficiency in profile if any	No
Stressing & Elongation	As per Drawing obtained
Grouting Mix w/c ratio Admixture	W/c ratio = 0.45 No admixture used
Pressure used for grouting	3 to 5 kg/cm²