

PROJECT:

PRESTRESSING WORK OF ASHAR I.T.PARK BUILDING



THE FREYSSINET PRESTRESSED CONCRETE COMPANY LTD.

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PROJECT DETAILS

Name of the Project	Ashar I.T.Park
Location (address)	Jayshri Baug, Road No. 16 Z, Wagle Industrial Estate, Thane – 400 604.
Name of the Client	M/s Ashar Realty Pvt. Ltd.,Thane
Name of the Main Consultant	M/s R.C.Tipnis Consulting Engineer, “Sanraj” G.V.S. Rd.No.2, Mulund (E), Mumbai 81 Ph.no. 65044758/21634399
Name of the Architect	M/s Spectrum Associates
Nature of Building	IT park
Date of Commencement	July'07
Date of Completion	Feb'08 (proposed) 8 months period
Total area of PT sq.m.	Approx. 59160 m²
No. of Storeys / PT slabs	Basement + Podium + 11 upper+ Terrace

TECHNICAL DETAILS

Grid Size in 'm'	10.80 X 10.80
Loadings	<u>Design loads for slab</u> LL = 5.00 kN/m ² SDL = 2.00 kN/m ² <u>Design loads for PT Beam</u> LL = 110 kN & 85 kN SDL = 540 kN & 415 kN
Column capital size (Drop panel) in 'mm'	3600 X 3600 X 475
Slab Thickness in 'mm'	230
Pour size in sq.m	Varies 2500 / 1500 / 1200
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	Stressing done from one end as well as from both ends in some cases.
Strand size	12.7 mm dia
Anchorage system	4S13
Total qty of H.T. strand in kg	245.514 MT
Pour strip	Pour strip introduced at upper stilt level slab
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 HTS, (75 X25) mm sheathing, 4S13 anchorages
Equipment used	EOHP Model - I, SC2 Jack, J-7 Agitator, J-600 Grouting Pump etc.
Sequence followed	1-3-2-4 (for stressing)
Post Threading / Pre Threading	Pre Threading
Deficiency in profile if any	4 mm to 5 mm at drop cap
Stressing & Elongation	As per drawing obtained
Grouting Mix w/c ratio Admixture	W/c ratio = 0.45 Admixture not used
Pressure used for grouting	3 to 5 kg/cm ²