



• Residential Tower, Mumbai, India

- This residential development encompasses one basement. The tower is located in Thane, Mumbai India.
- The building height is estimated to be 122 meters above ground with orthogonal dimensions of 30m and 43m approximately. The architectural shape of the building is plus (+) shaped.
- The core is expected to play key role in resisting lateral loads (Wind and Seismic).

Project Name
NDA, 2 Towers

Number of Floors
44 (122m)

Built up Area
8 Lakh Sq-ft.

LLRS SYSTEM
Core wall

Gravity SYSTEM
Shear Wall, Columns,
Floor Beam System.

Foundation SYSTEM
Raft Foundation

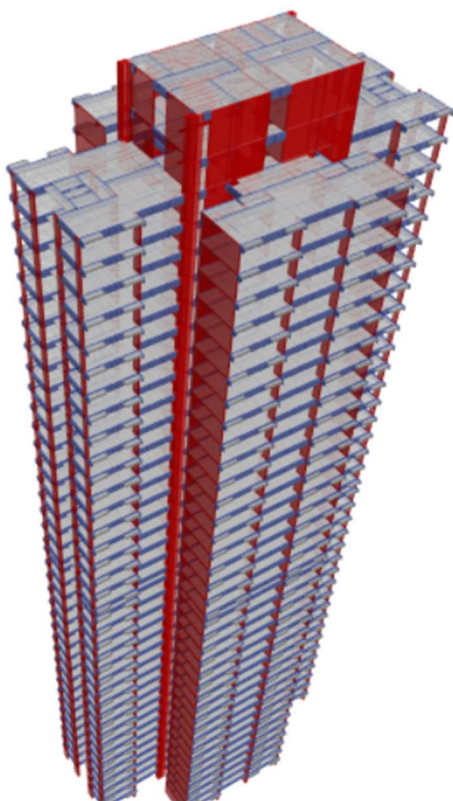
Started
2018-2019

Lead Architect
HOK, USA

Detailed Design Architect
DSP Design Associates,
Mumbai

MEP
Buro Happold
Engineering, Mumbai

Structures
KMH Engineering, Hyd.
Er. Majid Hashmi
(Concept to
Construction)

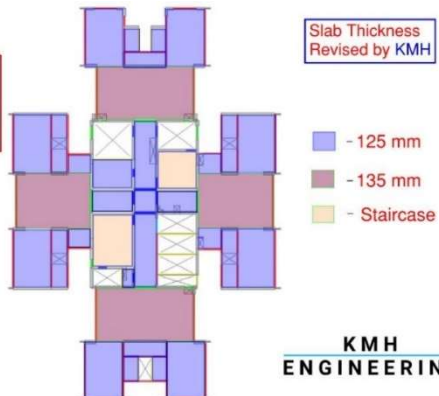


KMH Slab layout

Value Engineering / optimization for Piramal

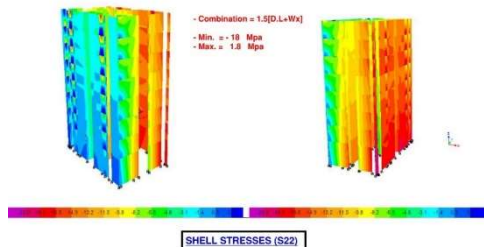
KMH

Date 19 Nov 2018



KMH ENGINEERING

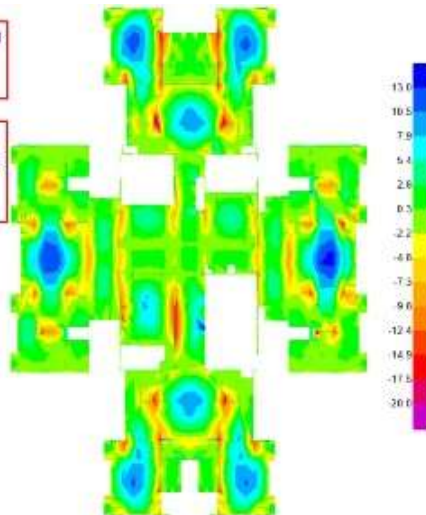
Value Engineering / Optimization for Piramal Vaikunth by KMH ENGINEERING



Bending Moment along X-direction
Combination:Ultimate

Structural optimization and Value Engineering
by KMH

Date 19 Nov 2018



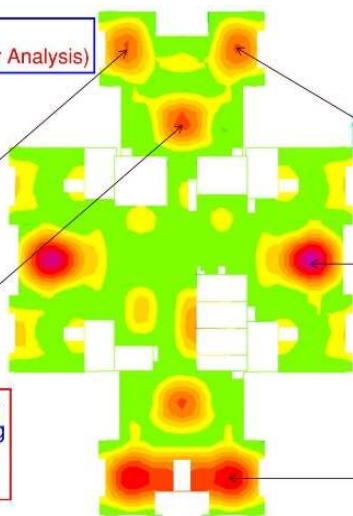
LONG TERM DEFLECTIONS(non-linear Analysis)

ALL DL :4
LL(25%) :4.3
LL(75%) :5.2
Longterm post finishes :1.1

ALL DL :4.28
LL(25%) :4.6
LL(75%) :5.58
Longterm post finishes :1.15

Structural optimization and Value Engineering
by KMH

Date 19 Nov 2018



ALL DL :4
LL(25%) :4.4
LL(75%) :5.3
Longterm post finishes :1.15

ALL DL :5.98
LL(25%) :6.6
LL(75%) :8.3
Longterm post finishes :2.11

ALL DL :5.46
LL(25%) :5.81
LL(75%) :6.96
Longterm post finishes :1.5

Allowable deflection ~ 25mm

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