



NATIONAL COMPETITION FOR CIVIL / STRUCTURAL ENGINEERING STUDENTS

FOR THE BEST INNOVATIVE STRUCTURAL STEEL DESIGN

TOPIC - STEEL INTENSIVE TRADE FAIR CENTRE

1ST

**AKSHAY KUMAR
ANIRUDH PAINULY**

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
(N-05)

PRIZE MONEY - Rs. 50,000 + MOMENTO + CERTIFICATE

2ND A

SHRADDHA INGALE

G.H RAISONI COLLEGE OF ENGINEERING, NAGPUR
(W-16)

PRIZE MONEY - Rs. 30,000 + MOMENTO + CERTIFICATE

2ND B

**GOHIL ANIKET D.
GOHEL HARSHAL C.**

L D COLLEGE OF ENGINEERING, AHMEDABAD
(W-03)

PRIZE MONEY - Rs. 30,000 + MOMENTO + CERTIFICATE

3RD A

**FARZAN LOVEJI KHAMBHATTA
UMANG BHARATBHAI PRAJAPATI**

L D COLLEGE OF ENGINEERING, AHMEDABAD
(W-02)

PRIZE MONEY - Rs. 20,000 + MOMENTO + CERTIFICATE

3RD B

**NAIK REHAN HAIDAR ALI
SAYYED SAJJAD HUSSAIN ZUBAIRAHMED
SHAIKH NOUSHEEN AEJSAZ
SHAIKH SAYEDUDDIN ANISUDDIN**

M H SABBO SIDDIK COLLEGE OF ENGINEERING, MUMBAI
(W-04)

PRIZE MONEY - Rs. 20,000 + MOMENTO + CERTIFICATE

RESPECTED JURY MEMBERS

INSDAG CENTRAL SELECTION COMMITTEE

NORTH ZONE

DR. PABITRA RANJAN MAITI

DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY, BHU

SOUTH ZONE

DR. M V ANIL KUMAR

DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY, PALAKKAD

EAST ZONE

DR. AVIK SAMANTA

DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY, PATNA

WEST ZONE

DR. TEKCHAM GISHAN SINGH

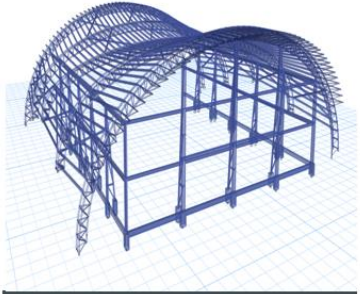
DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR

CENTRAL JURY

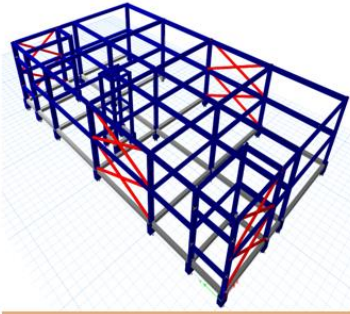
DIPAK KUMAR BASAK

TECHNICAL DIRECTOR, CIVIL & STRUCTURAL
M N DASTUR & CO. PVT. LTD

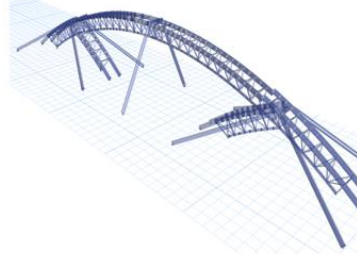
3D Model Components



Exhibition Hall



Banquet Hall
and
Office area



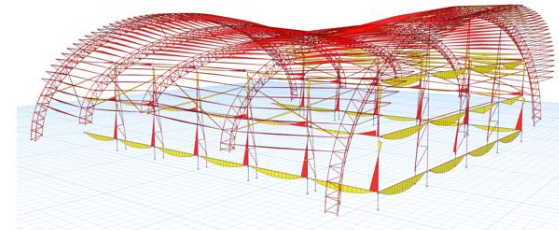
Side supporting
Arch

1st

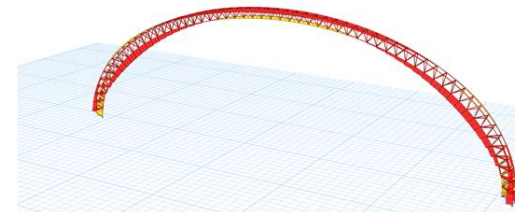
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE (N-05)

AKSHAY KUMAR
ANIRUDH PAINULY

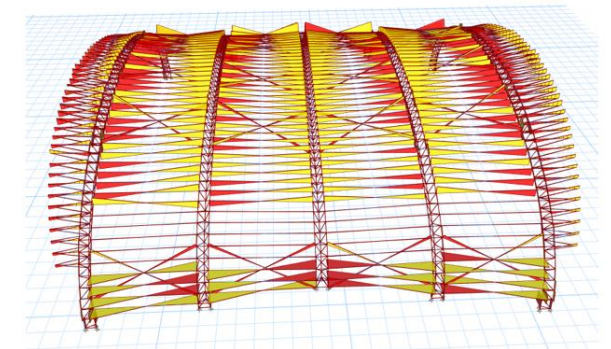
BMD and SFD



BMD under 1.5DL+1.5LL-1.5WX



AFD under 1.2DL+1.2LL+1.2WX

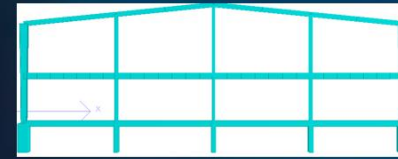


SFD under 1.2DL+1.2LL+1.2WX

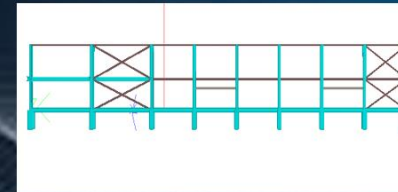
Hence, Wind is governing the design

G.H RAISONI COLLEGE OF ENGINEERING NAGPUR (W-16)

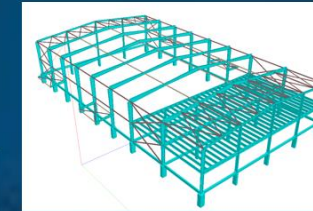
SHRADDHA INGALE



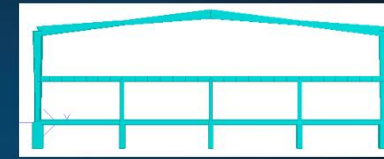
End Frame



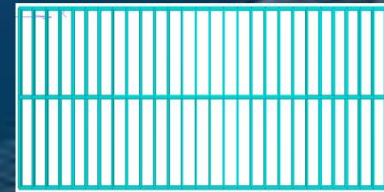
Side Frame View with Bracings



3D Rendered View

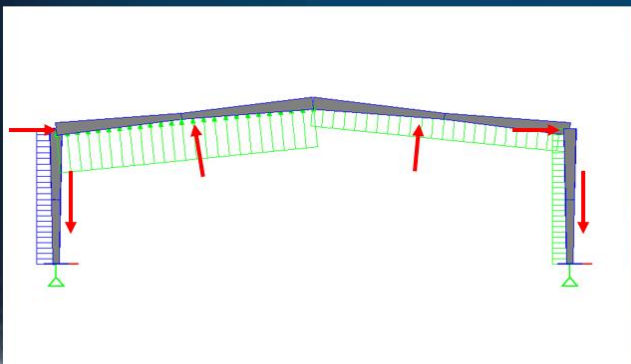


Main Frame



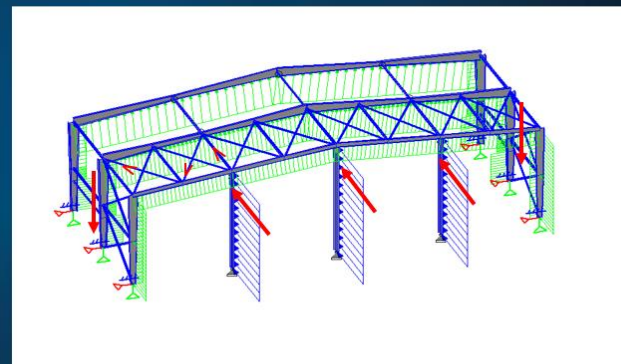
Mezzanine Deck

- Lateral Force Distribution



X-DIRECTION

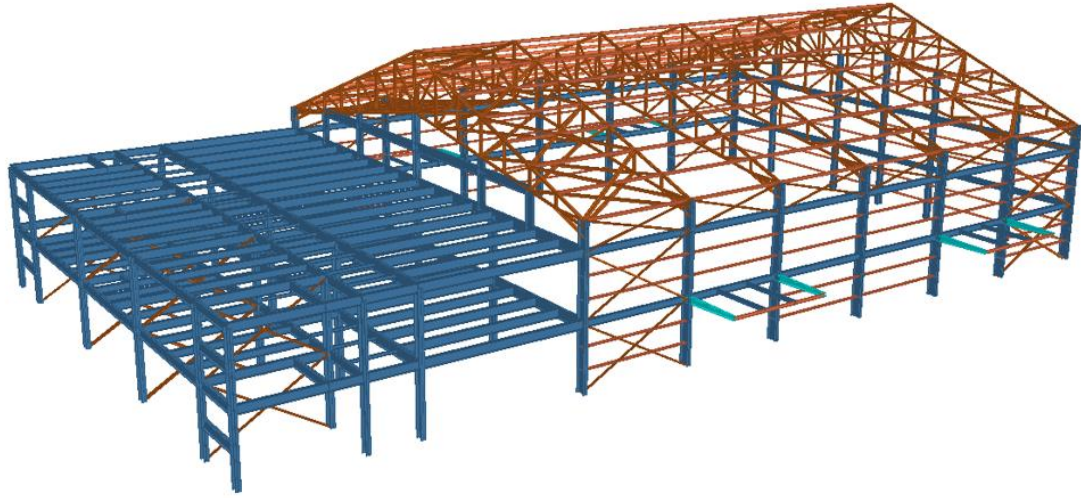
Load Type-Wind, Seismic load (X-direction)



Z-DIRECTION

Load Type-Wind, Seismic load (Z-direction)

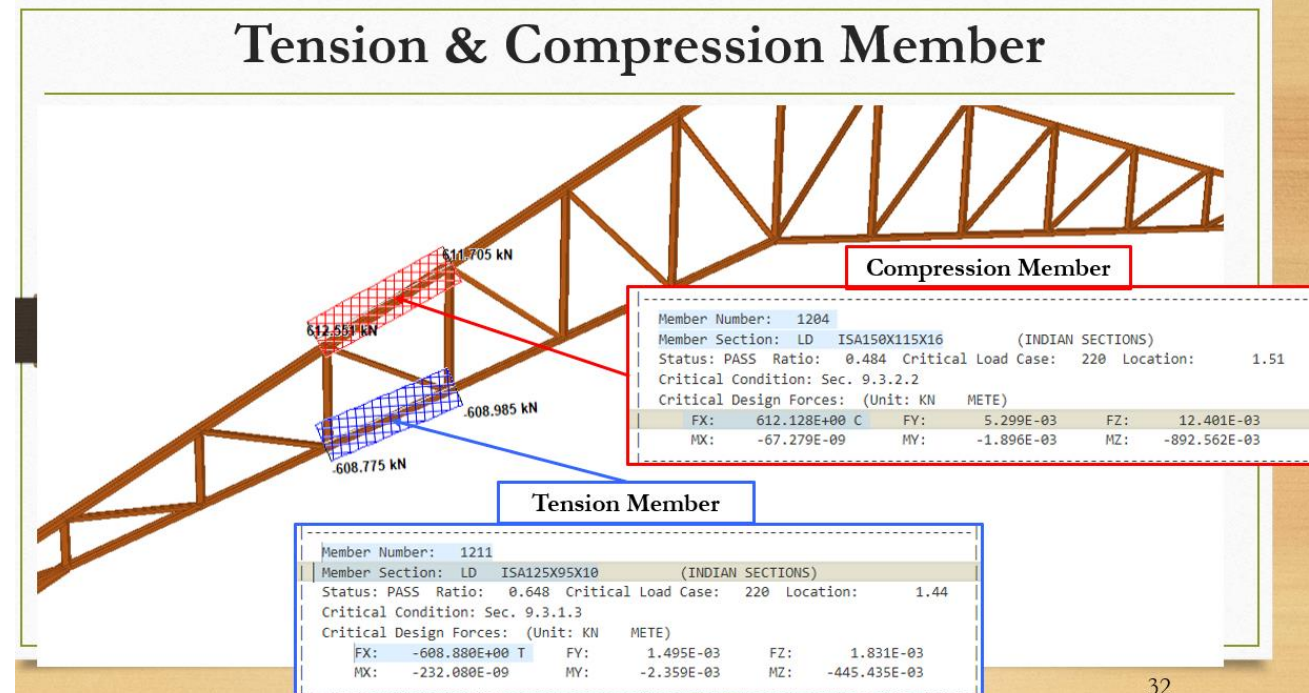
2nd - A



L D COLLEGE OF ENGINEERING AHMEDABAD (W-03)

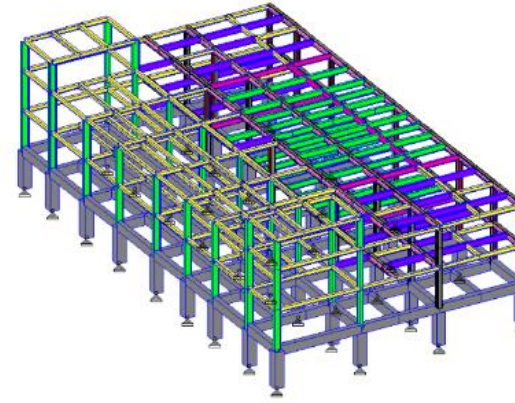
**GOHIL ANIKET D.
GOHEL HARSHAL C.**

2nd - B

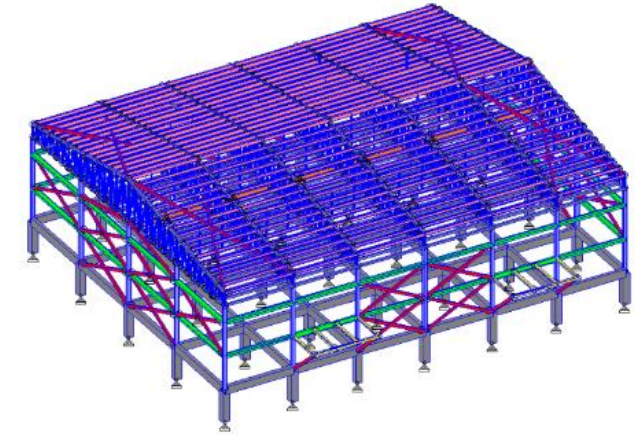


L D COLLEGE OF ENGINEERING AHMEDABAD (W-02)

FARZAN LOVEJI KHAMBHATTA
UMANG BHARATBHAI PRAJAPATI

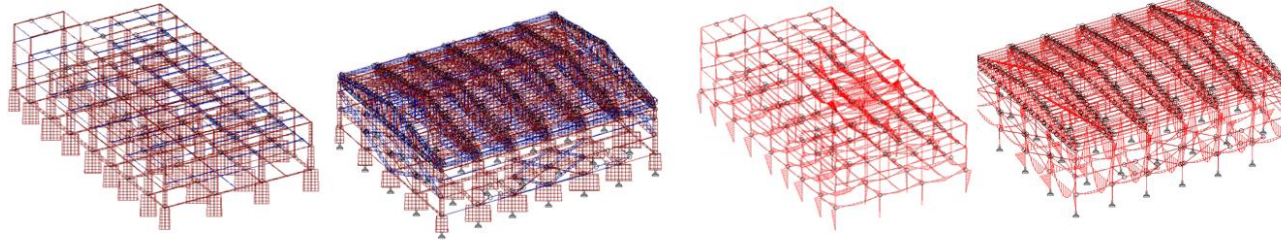


Banquet & Office Area



Exhibition Hall Area

- Rigid frame



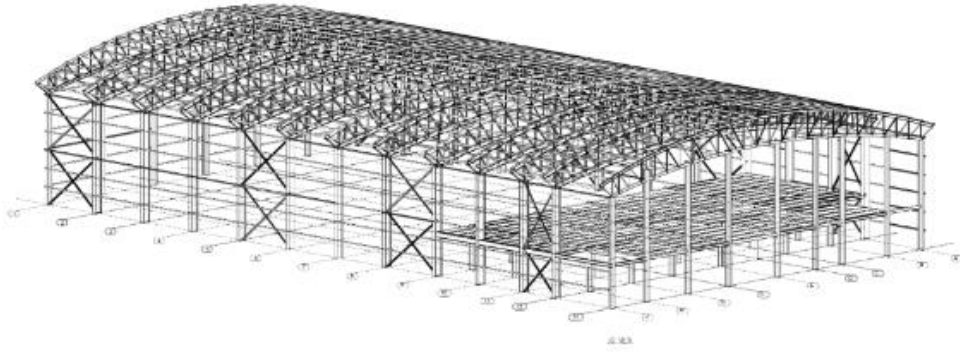
Axial Force

Bending Moment

Lateral Load resisting system
X-Direction

3rd - A

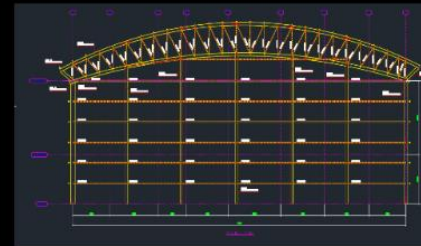
M H SABBO SIDDIK COLLEGE OF ENGINEERING
MUMBAI
(W-04)



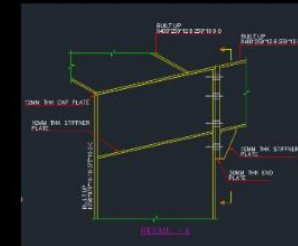
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3rd - B

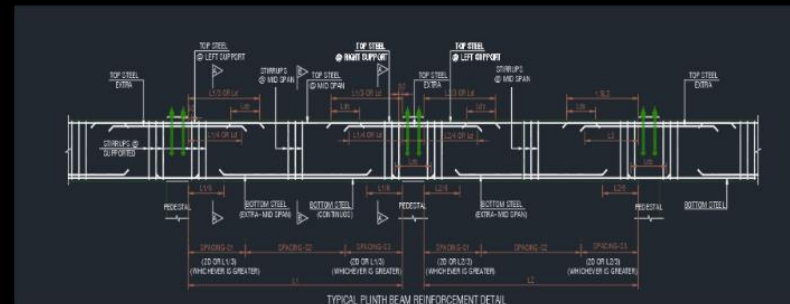
2) Sectional Views



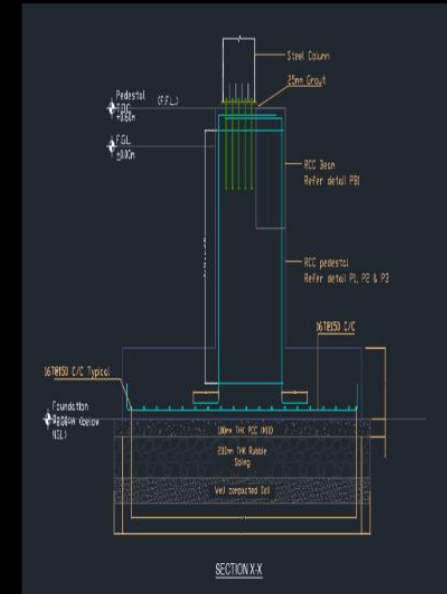
Sectional Elevation



Connection Details



Plinth Beam Reinforcement Details



Base Plate