



WELCOME TO ALL AT PEPSCON

**D V L Narasimham
AGM – Sales
Kirby Building Systems India Ltd.**

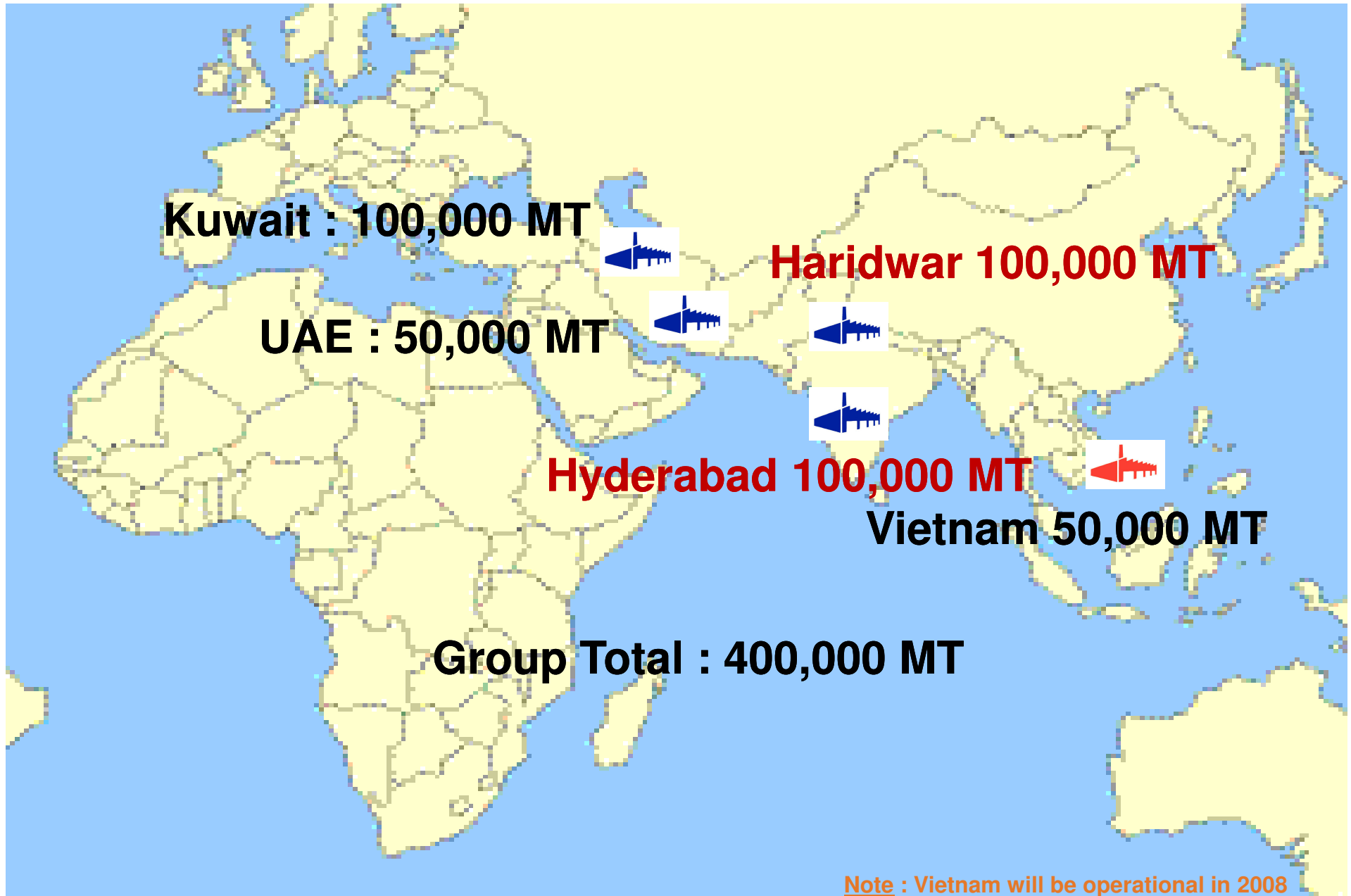
Kirby Global Overview

- ❑ Kirby Building Systems is a 100% owned subsidiary of Alghanim Industries – one of the oldest Kuwait based US\$2 Bn business conglomerate with diversified business interests.
- ❑ Kirby is one of the largest PEB manufacturers in the world with 400,000 MT / pa capacity.
- ❑ State of the art manufacturing facilities at Kuwait, Ras Al Khaimah (UAE), Hyderabad (India), Haridwar (India), and HCMC (Vietnam).
- ❑ Global reputation as one of the world's top 3 leading manufacturers of quality steel buildings and structures.
- ❑ In operation since 1976, Kirby provides cost effective solutions for buildings manufactured to the highest quality standards
- ❑ Over 60,000 landmark projects across the globe.
- ❑ 70 Sales offices and more than 250 builders strategically spread across the world.

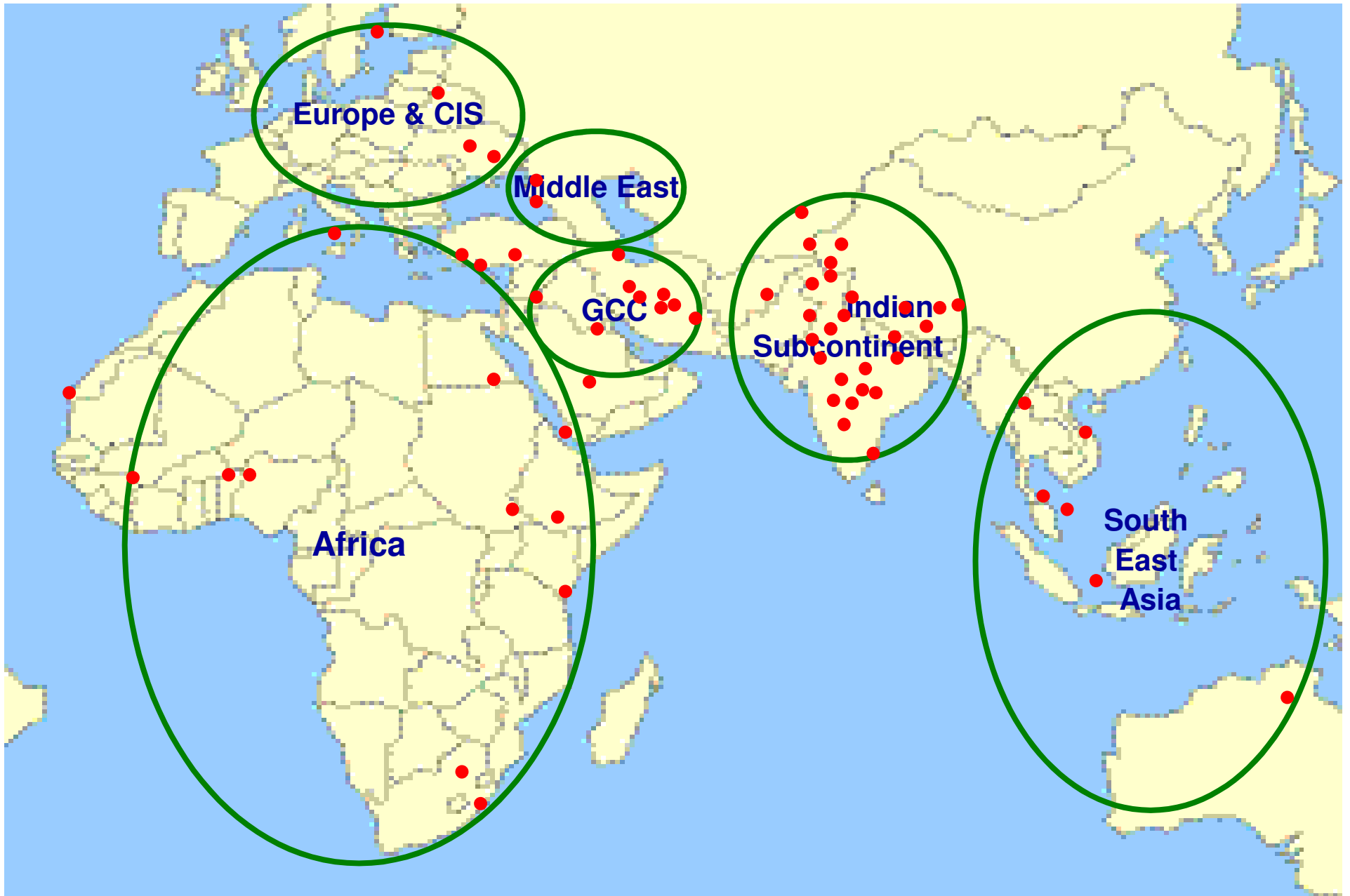


Committed to Excellence

5 Manufacturing Facilities Worldwide



SALES NETWORK



KIRBY BUILDING SYSTEMS INDIA LIMITED

(ISO 9001 : 2008 CERTIFIED FACTORIES)



KIRBY INDIA – CORPORATE OFFICE



- ✓ Over 4,500 customers till date.
- ✓ More than 15,000 buildings already delivered in india.
- ✓ Over 100 builders trained and certified on Kirby's erection procedures.
- ✓ Has specialized in supplying mega projects of over one lac sqm at one location.

KIRBY INDIA - SALES NETWORK



PRODUCTS & SERVICES

- ❑ Pre-Engineered Steel Buildings (PEB)
 - Primary Members (Beams, Columns, Rafters)
 - Secondary Members (Purlins, Girts)
 - Roof Sheeting & Wall Cladding
 - Building Accessories, Buyout items and Insulation

- ❑ Structural Steel

- ❑ Storage Solutions (Industrial Racking Systems)

- ❑ Cold Roll Formed Structures (CRF)

- ❑ Building Components

PEB APPLICATIONS

Industrial Buildings

Warehouses / Sheds / Cold Storages

Showrooms / Workshops

Supermarkets

Offices

Ports

**Metro Rails (Stations, Stabling Yards
Maintenance Yards, Workshops)**

Aircraft Hangars

Sports Structures

Agricultural Buildings

Community Buildings

Others

PEB ADVANTAGES

- Cost Effective
- Faster Installation
- Ease of Construction
- Flexibility in Expansion
- Earthquake-resistant
- Practically Maintenance Free
- Environmental friendly
- Flexibility of relocation
- Up to 100 M Clear Spans without Interior Columns

ENGINEERING FACILITIES

- ❑ State-of-the-art facility to quote the most optimized design for any kind of complex building.
- ❑ Latest software for design & estimation - PACE – II, SMARTTEST, STAAD – PRO
- ❑ Drafting software - X-STEEL, AUTOCAD
 - KADS (Kirby's Automated Drafting System)
 - KAPS (Kirby Automated Proposal Sketches)
- ❑ Design & detailing time is minimum in order to provide the proposal in the shortest time.



Manufacturing Facilities

Hyderabad & Haridwar

Built-up

- ✓ 5 Lines with wide range of product sizes
- ✓ Shot-blasting facility
- ✓ Spatter less FCAW welding
- ✓ Multiple coat paint application at factory

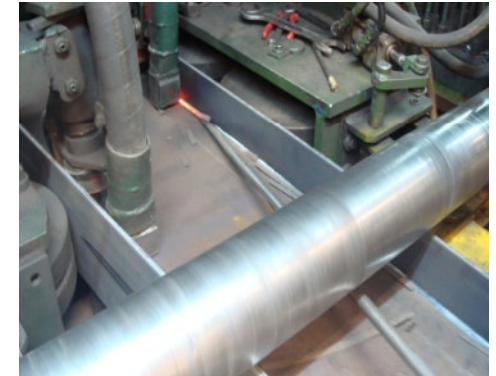


Multi Torch

Shearing



CNC-Drilling



H Beam Welding



Shot Blasting



Cold Form

- ✓ **Dedicated roll forming lines for 'C', 'E', 'L' and 'Z'**
- ✓ **Incorporated with on-line painting system**
- ✓ **Facility to provide non-standard additional holes**



C Forming

Z Forming



Heavy duty Press



Sheeting	✓ Dedicated roll forming lines with site rolling facility
Trims	✓ Roll formed downspouts



Sheet Rolling

Sheet Press



Downspout rolling



QUALITY LABORATORY

- ✓ Mechanical properties testing (Destructive & non-destructive)
- ✓ Welding (DPT, MPI, Ultrasonic)
- ✓ Paint (DFT, CHS, WFT, Viscosity, Impact)
- ✓ Salt Spray
- ✓ Color Spectro Analysis
- ✓ Tape Calibration unit
- ✓ Blasted surface finish tester
- ✓ International / national standards (ASTM / AWS 2009 and relevant IS standards)



AWARDS & RECOGNITIONS



Dun & Bradstreet (D&B) Infra Award 2013 for the "Best Project" under the category of pre-engineered building



Era Fame Awards 2013 for "Outstanding Company (Pre Engineered Building)"



EPC World Award 2013 for the "Outstanding Company in Pre-Engineered Building"



International Safety Awards 2013 by British Safety Council



- Infrastructure Excellence Award - 2011 for M/s. Renault Nissan Automotive India Pvt. Ltd.
- EPC World Awards 2011 for the "Outstanding company in PEB".



Greentech Environment Award 2011



Greentech Safety Award 2011



Greentech Safety Award 2012



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FEW OF OUR CLIENTS



FEW OF OUR CLIENTS



WAREHOUSES & OTHER STRUCTURES

SHELL PETROL STATION

25 MT
450 sqm



RUCHI INFRASTRUCTURE - INDORE

Warehouse Building



ITC LTD - BADDI

Warehouse Building

615 MT
7,830 sqm



SHREE SHUBHAM LOGISTICS – DEWAS, MP

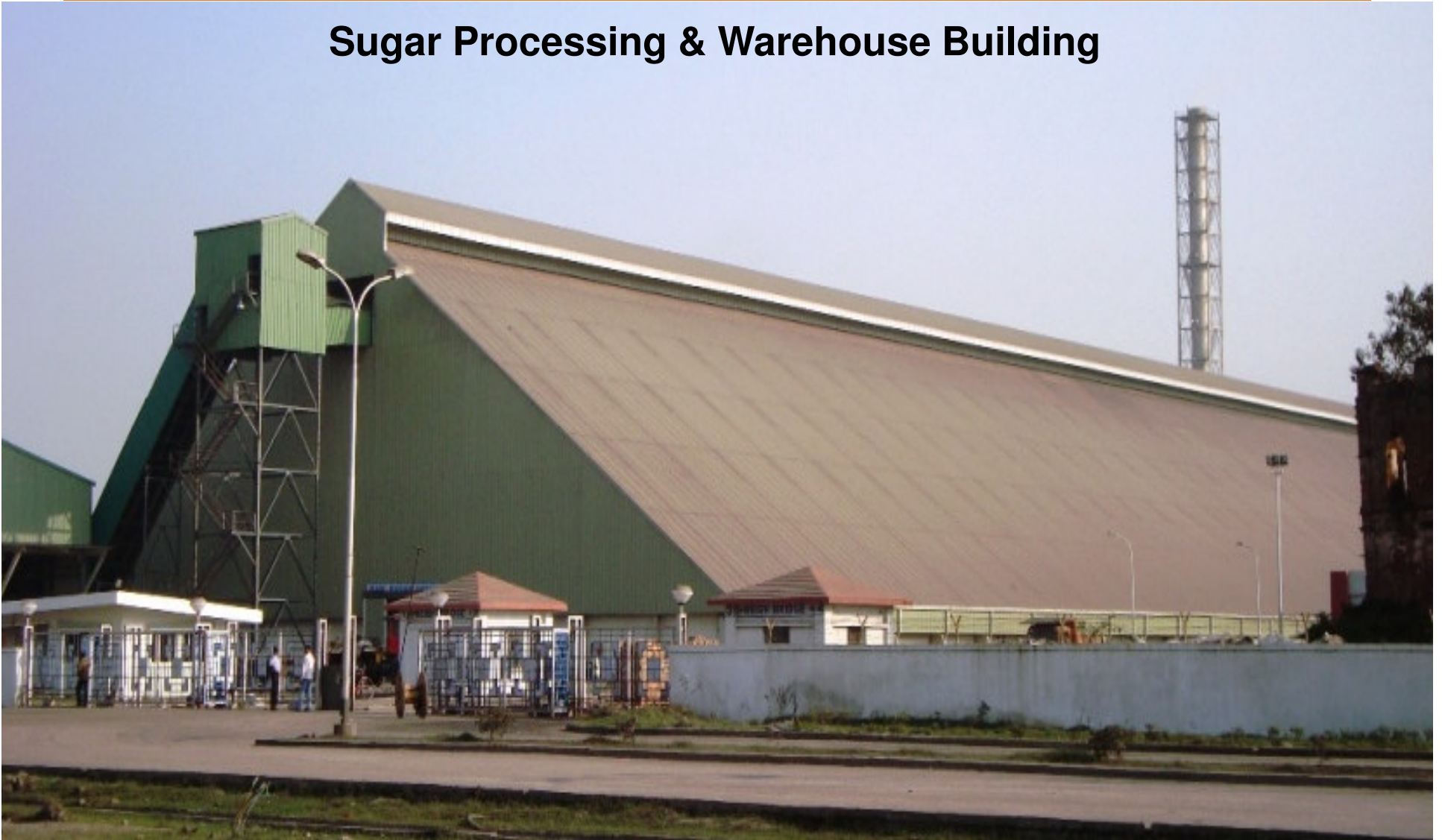
Warehouse Building

465 MT
19,600 sqm



RENUKA SUGARS - HALDIA

Sugar Processing & Warehouse Building



HINDUSTAN UNILEVER - ASSAM

Warehouse Building

435 MT



MILESTONE BUILDWELL - MUMBAI

Warehouse Building

3,100 MT
83,800 sqm



AMAR CARS (SHOWROOM) – VADODARA

200 MT
700 sqm



BHARTI-WALMART - SHOLAPUR

Supermarket (Retail Shopping Center)

220 MT
4,200 sqm



METRO CASH & CARRY - HYDERABAD

Supermarket (Retail Shopping Center)

325 MT
4,100 sqm



SHIMIZU CORP (HONDA EXPRESS LOGISTICS) - ALWAR

Warehouse Facility for Honda Group

2,500 MT
15,500 sqm



SAROAGI BUILDERS - DELHI

Aircraft Hangar

1,750 MT
11,800 sqm



VVIP HANGAR – NEW DELHI

Aircraft Hangar

1,800 MT
16,000 sqm



IMTMA - BANGALORE

Exhibition Hall

3,600 MT
40,000 sqm



PIPAVAV SHIPYARD - GUJARAT



KIRBY PROJECTS PORTFOLIO - INDUSTRIAL STRUCTURES

RENAULT – NISSAN – CHENNAI

World's Largest PEB at Single Location

Automobile Manufacturing Facility

23,000 MT
310,000 sqm



HANSEN DRIVES - COIMBATORE



- ❑ Worlds largest Gear Box manufacturing facility for wind turbines acquired by Suzlon
- ❑ PEB structure with area of 110,000 sqm & 19,500 MT of steel. Bldg spans vary from 12 to 32 mts & height 11 to 22 mts.



DANIELI – NELLORE, AP

**Steel Plants Machinery
Manufacturing Facility**

**9,000 MT
48,000 sqm**



TOSHIBA-JSW - CHENNAI

Turbines & Generators Manufacturing Facility

11,000 MT
63,000 sqm



Load testing of 500 MT capacity crane at on Kirby structure



TATA MOTORS (NANO FACILITY) – SANAND, GUJARAT

TCF BUILDING



8,000 MT
100,000 sqm

ENGINE SHOP



MAHINDRA & MAHINDRA - ZAHEERABAD, AP

Tractor Manufacturing Facility

3,500 MT
52,000 sqm



EICHER MOTORS (ROYAL ENFIELD) - CHENNAI

Two Wheeler Manufacturing Facility

1,080 MT
9,200 sqm



MRF LTD - TRICHY

Tyre Manufacturing Facility

7,200 MT
81,900 sqm



SHIMIZU CORP (HONDA MOTORS) - BANGALORE

Two Wheeler Manufacturing Facility

5,900 MT
112,000 sqm



HINDUSTHAN NATIONAL GLASS - NELLORE

Glass Bottle Manufacturing Facility

**6,000 MT
20,000 sqm**



KNORR BREMSE – PALWAL, HARYANA



1,339 MT

19,000 sqm

Wall & Roof are PUF insulated

SGL CARBON - PUNE



NOKIA - CHENNAI

Mobile Handset Manufacturing Facility



2,500 MT
27,800 sqm



SANY HEAVY INDUSTRY - PUNE

Construction Equipment Manufacturing Facility

**4,800 MT
70,600 sqm**



SE FORGE - COIMBATORE



- Worlds largest foundry under one roof supplying forgings for Gear Box manufacturers.
- PEB structure with area of 62,000 sqm & 8,000 MT. 30 mts module BC2 building with cranes from 60 to 120 MT capacity.
- 150/60/50 MT - EOT/Semi Gantry Cranes



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SUZLON WIND ENERGY - MANGALORE



➤ World's largest rotor blades manufacturing facility for wind turbines.

➤ PEB structure with area of 150,000 sqm & 12,500 MT of steel.

01/01/2007

130 MT crane

SIEMENS LTD. - BARODA

Steam Turbine and Compressor
Manufacturing Facility

1,450 MT
11,000 sqm



150 MT crane structure

THERMAX - BARODA

Boiler Manufacturing Facility

3,000 MT
22,000 sqm



200 MT EOT Gantry Cranes



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PIPAVAV SHIPYARD - GUJARAT

- Largest shipbuilding facility in the country with capacity to handle 90,000MT DWT vessels
- At 40 meters, this is the tallest PEB manufacturing facility in the country with cranes from 20 MT to 150 MT.
- Total covered area is about 60,000 sqm involving steel of more than 9000 MT with crane beams of 25 m span without support.
- Crane Beams are of 2.1 m depth.

8,900 MT
60,300 sqm



MADHUCON PROJECTS (TG BLDG) - NELLORE



2 x 150 MW Power Plant



4,100 MT
5,500 sqm



DONGYANG (POSCO) - PUNE

- *Heavy structures with stringent tolerances*
- *High capacity crane beams*
- *NDT welding quality*
- *Multiple coat painting at factory*
- *2.5 mtr. x 12 mtr. Structures*



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GAMMON INDIA (STEEL BRIDGE GIRDER) – NEW DELHI

Flyover for Commonwealth Games

2,250 MT



Kirby
BUILDING SYSTEMS

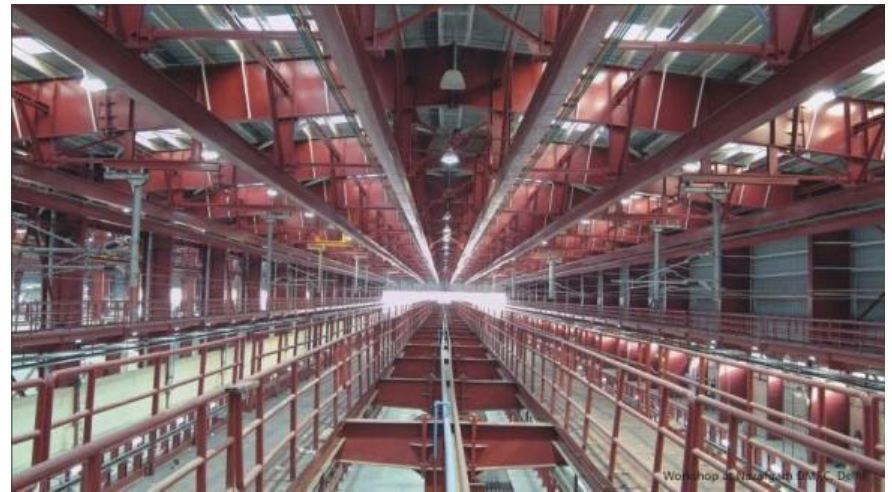
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DELHI METRO – NEW DELHI



5,000 MT
50,000 sqm

Railway Station



Inspection & Workshop Buildings

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BMRCL – BANGALORE



5,100 MT
62,500 sqm

L&T METRO – HYDERABAD



2,900 MT
43,500 sqm



DECORE SCIENCE & TECHNOLOGY – NOIDA



STERLITE INFRATECH – AURANGABAD

Optical Fiber Manufacturing Facility

850 MT
4,300 sqm
G+6 structure



PHYTO LIFE SCIENCES – HALOL



PARAKH AGRO



YAZATA ESTATES - PUNE



IDEMITSU LUBE - PUNE



1,667 MT
36,800 sqm



AMBA RIVER COKE - DOLVI



AMBA RIVER COKE - DOLVI



RELIANCE INDUSTRIES LTD - MUMBAI



RELIANCE INDUSTRIES LTD - MUMBAI

Office Building (11 nos)

8,100 MT
81,000 sqm



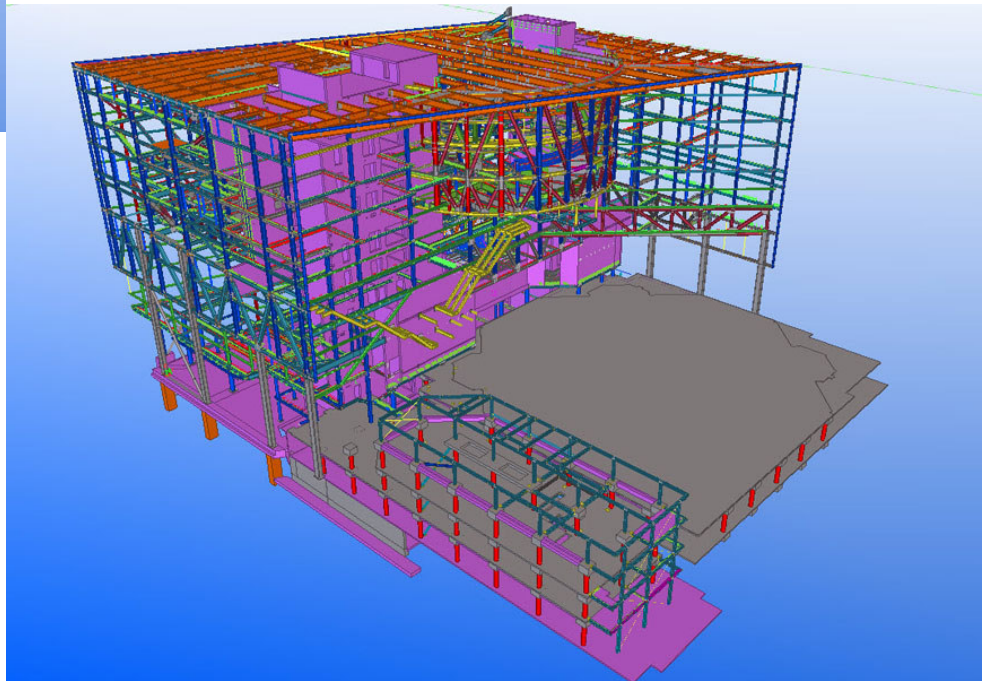
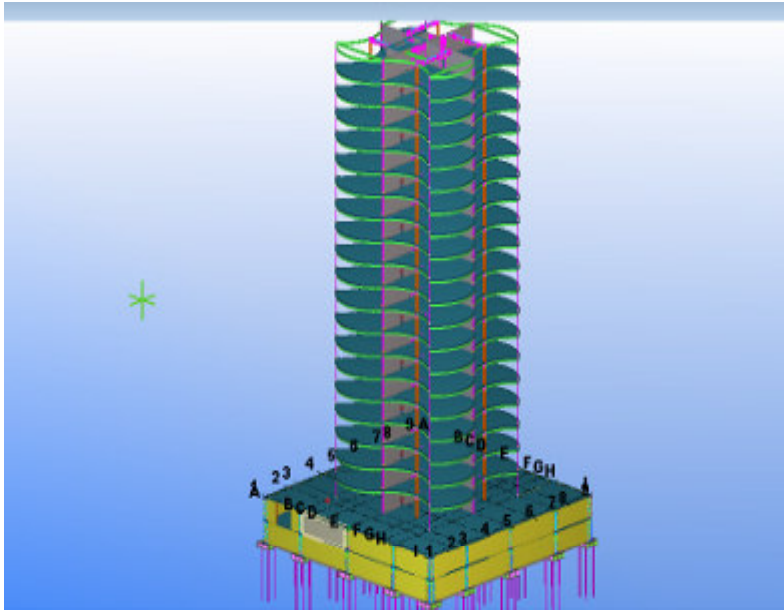
NORTH EASTERN COUNCIL - SHILLONG



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SPECIAL SOFTWARES FOR DESIGN AND DETAILING



HIGH RISE STRUCTURES



**AL SHA'AB MEDICAL
CENTRE - KUWAIT**



JAHRA HOSPITAL - KUWAIT



UNION PROPERTIES OFFICES - DUBAI, UAE

BANK SADIRAT – DUBAI, UAE



AL-FAHIM CAR PARK - ABU DHABI, UAE



QAIS ALGHANIM RESIDENTIAL BUILDING - KUWAIT

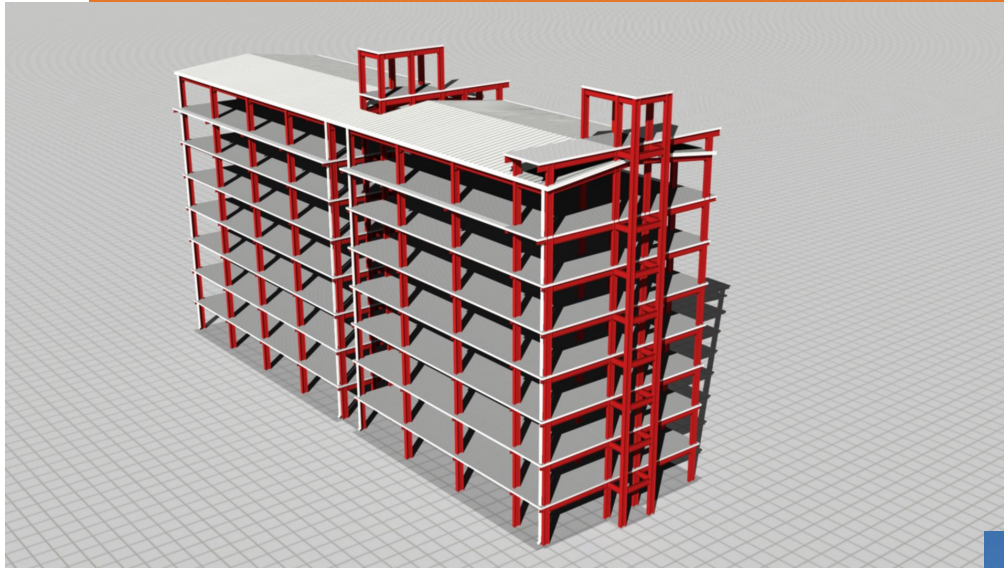


HIGH RISE PROJECTS UNDER EXECUTION IN INDIA

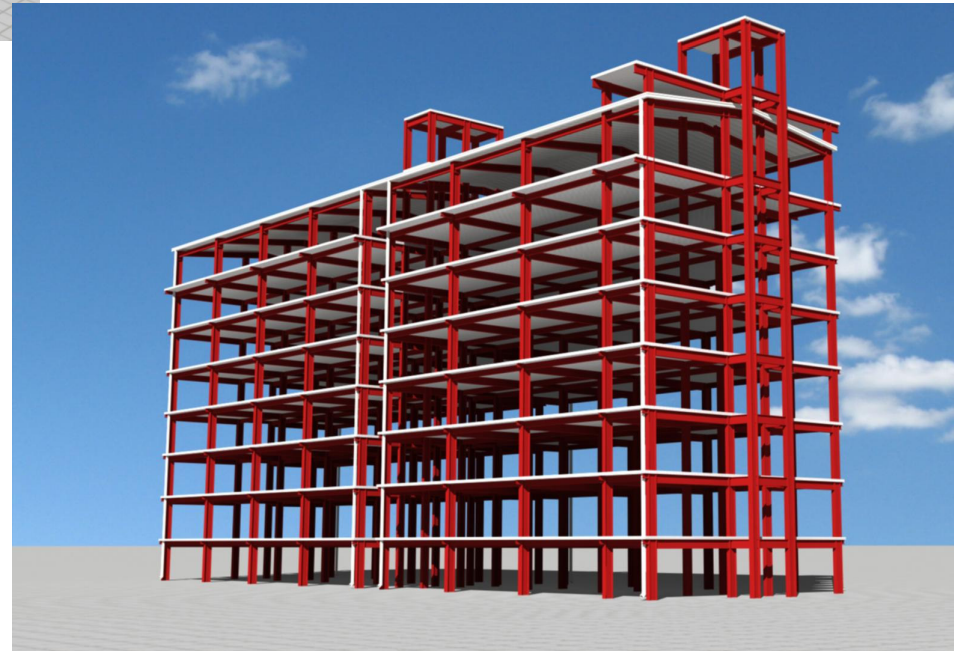
2,040 sqm
G+3 structure



HIGH RISE PROJECTS UNDER EXECUTION IN INDIA



5,475 sqm
G+8 structure



HIGH RISE PROJECTS UNDER EXECUTION IN INDIA

6,565 sqm
G+13 structure



Kirby
BUILDING SYSTEMS

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EMERGING TRENDS IN PEB INDUSTRY

- PEB industry has grown leaps and bounds in the last 14+ years in India.
- PEB industry in India in the last decade has outpaced the growth of existing 100 years of PEB industry in developed countries like U.S especially in the areas of diversification and offering steel building solutions.
- PEB industry in the developed countries still restrict themselves and operate within the barriers of low rise building category (buildings with height \leq 20m).
- PEB in India have successfully ventured beyond this barrier and demonstrated that PEB's are the most preferred future steel building systems.
- Sophisticated software packages have been developed interlinking design, detailing and fabrication enabling faster deliveries.
- The composite decking design philosophy will go a long way in high rise steel building having number of floors.

EMERGING TRENDS IN PEB INDUSTRY

- Diversification of PEB industry into major conventional steel areas such as shipyard structures, power plant structures, stadiums, high rise steel buildings and buildings with very heavy cranes, etc.
- Customer perception and mindset have totally changed and is able to exercise better control on PEB manufacturers on all fronts, thanks to PEB industry concepts.
- Speed, quality, design optimization, aesthetics have really taken PEB industry a long way.
- Green building concepts such as eco friendly, energy efficient systems have already got imbibed into the pre engineered building design, production and construction concepts.
- PEB industry is able to penetrate into other diversified areas with above mentioned advantages.

Q&A

THANK YOU

