Southern Builder

Bulletin of Builders Association of India - Southern Centre

Since 1941

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December 2016

BAIMAT 2017

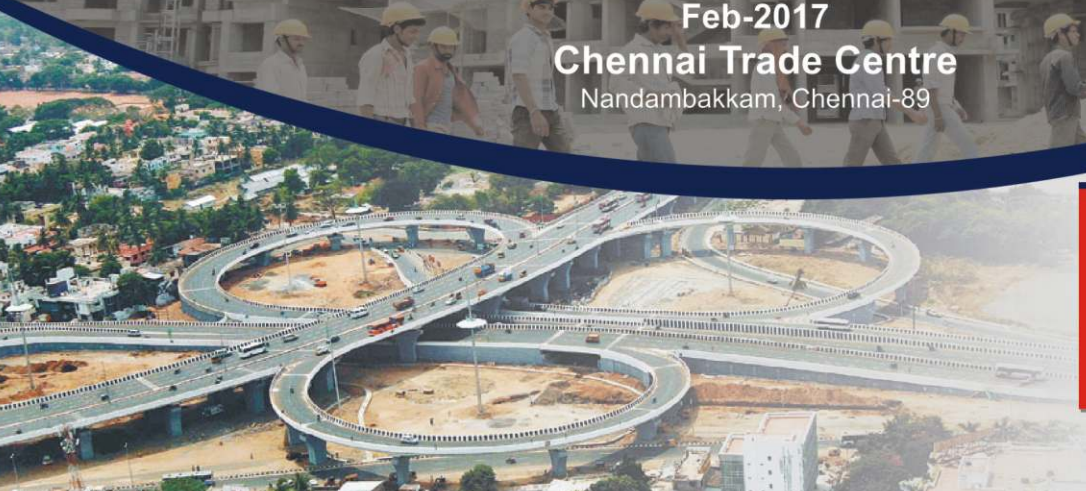
Exhibition For Construction MATERIALS & TECHNOLOGY

16 17 18 & 19

Feb-2017

Chennai Trade Centre

Nandambakkam, Chennai-89



Inside

Tamil Nadu State Convention -2017
On 15th & 16th Feb.2017
Chennai Trade Centre
Registration Form

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We deeply mourn the sad demise of
Hon'ble Chief Minister of Tamil Nadu

Selvi J. Jayalalithaa

(1948 – 2016)

BUILDERS' ASSOCIATION OF INDIA
Southern Centre
"Casa Blanca", 2nd Floor, No.11(Old No.6), Casa Major Road
Egmore, Chennai – 600 008, Ph: 2819 2006, Telefax: 2819 1874)
Web Site :www.baisouthern.com E-mail: baisouthern@yahoo.com

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Builders' Association of India
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Website : www.baisouthern.com

Contents

Disclaimer

ஆசிரியர் மடல்

வணக்கம் !

ஆப்பிள் நிறுவனர் ஸ்டீவ் ஜாப்சின் இறுதி வரிகள்

நான் வணிகவுலகில் வெற்றியின் உச்சத்தைத் தொட்டிருக்கிறேன். பிறரின் பார்வையில் என் வாழ்க்கை வெற்றிகரமானதுதான். எப்படியிருந்தாலும் என்னுடைய பணிச்சுமைகளை எல்லாம் தாண்டி நானும் என் வாழ்க்கையில் ஒரு சில மகிழ்ச்சியான தருணங்களைச் சந்தித்திருக்கிறேன். உணர்ந்திருக்கிறேன். அனுபவித்திருக்கிறேன். பணமும் வசதிகளும் மட்டுமே வாழ்க்கையில்லை என்பதை என் வாழ்க்கையின் இறுதிக்கட்டத்தில்தான் அறிந்து கொண்டேன்.

இதோ இந்த மரணத்தருவாயில், நோய்ப் படுக்கையில் படுத்துக் கொண்டு என் முழு வாழ்க்கையையும் திரும்பிப் பார்க்கும் இந்தத் தருணத்தில் வாழ்க்கையில் எனக்கு கிடைத்த அங்கீகாரங்கள், பணம், புகழ், சொத்து, செல்வாக்கு எல்லாமே செல்லாக்காசாக, பொருளற்றதாக மரணத்தின் முன் தோற்றுப்போய் நிற்பதை உளமார உணர்கிறேன்.

வாழ்க்கையில் நாம் வாழ்வதற்குப் போதுமான பணத்தை ஈட்டியபின், பணத்திற்குத் தொடர்பில்லாத மரணத்திற்குத் தொடர்புடைய சிலவற்றையும் சம்பாதிக்கத் தொடங்க வேண்டும் என்பது இப்போதுதான் எனக்குப் புரிகிறது. அவை உறவாகவோ, நட்பாகவோ, கலையாகவோ, அறமாகவோ, நம் இளமையின் கனவாகவோ இருக்கலாம். அவைதான் வாழ்வில் மிக மிக இன்றியமையாதன என்பதை - காலங்கடந்து இப்போது நான் உணர்கிறேன். நான் சம்பாதித்த பணம் எதையும் என்னுடன் கொண்டு போக முடியாது. நான் மகிழ்ந்திருந்த என் நினைவுகள் மட்டுமே இப்போது என்னுடன் இருக்கின்றன.

அன்பும் காதலும் பல மைல்கள் உங்களுடன் பயணிக்கும் வாழ்க்கைக்கு எந்த எல்லைகளுமில்லை. எங்குச் செல்ல ஆசைப்படுகிறீர்களோ அங்குச் செல்லுங்கள். தொட நினைக்கும் உயரத்தை உச்சத்தை தொட முயலுங்கள். நீங்கள் வெற்றியடைவது உங்கள் எண்ணத்திலும் கைகளிலும்தான் உள்ளது. உங்கள் பணத்தை வைத்து நீங்கள் என்ன வேண்டுமானாலும் வாங்கலாம். ஆனால் அந்தப் பணத்தின் மூலம் உங்கள் வலியை உங்கள் துயரை யாரையும் வாங்கிக் கொள்ளுமாறு செய்ய முடியாது. முடியவே முடியாது.

பணத்தின் மூலம் வாங்கும் பொருட்கள் தொலைந்துவிட்டால் மீண்டும் வாங்கிவிடலாம். ஆனால் நீங்கள் தொலைத்து அதைப் பணத்தால் வாங்க முடியாது என்ற ஒன்று உண்டென்றால் அது உங்கள் வாழ்க்கைதான். வாழ்க்கையில் எந்தக் கட்டத்தில் நீங்கள் இருந்தாலும் பரவாயில்லை. இப்போதாவது வாழ்க்கையை வாழத் தொடங்குங்கள். நாம் நடித்துக் கொண்டிருக்கும் வாழ்க்கை எனும் நாடகத்தின் திரை எப்போது வேண்டுமானாலும் இறக்கப்படலாம் என்பதை நினைவில் கொள்ளுங்கள்.

உங்களின் குடும்பத்தினருக்கு, பெற்றோர்க்கு மனைவிக்கு, மக்களுக்கு, உறவினர்க்கு, நண்பர்களுக்கு, இயலாதவர்களுக்கு அன்பை வாரி வாரி வழங்குக்கள். உங்களை நீங்கள் எப்போதும் மகிழ்ச்சியாக வைத்துக் கொள்ளுங்கள். அனைவரையும் மனமார நேசியுங்கள். நேசித்துக் கொண்டே இருங்கள். - ஸ்டீவ் ஜாப்ஸ்

தமிழக முன்னாள் முதல்வர் செல்வி ஜெ. ஜெயலலிதா அவர்களின் மறைவுக்கு நமது ஆழ்ந்த இரங்கலையும், வருத்தத்தையும் தெரிவித்துக் கொள்கிறோம்.

நில்லாத வற்றை நிலையின என்றுணரும்
புல்லறி வாண்மை கடை

- திருக்குறள்

அன்புடன்
மு. மோகன்

மய்யத் தலைவர் மடல்

அன்புடையீர் வணக்கம்

அகில இந்திய கட்டுநர் சங்கத்தின் பவள விழாவை வெற்றிகரமாக அனைவரும் வியக்கும் வண்ணம் நடத்திக் காட்டிய நம்முடைய தென்னக மய்யம் மேலும் ஒரு மாபெரும் மாநில மாநாடு மற்றும் மாநிலக்கூட்டம் வரும் பிப்ரவரி மாதம் 15மற்றும் 16ம் தேதிகளில் நந்தனம் வர்த்தக வளாக மையத்தில் நடத்த உள்ளோம். அதே நேரத்தில் நமது மய்யத்தால் கட்டுமானப் பொருட்களுக்கான இரண்டாவது கண்காட்சி (BAI MAT -2017) பிப்ரவரி மாதம் 16,17,18 மற்றும் 19ம் தேதிகளில் (4 நாட்கள்) மிக விமரிசையாக பெரிய நிறுவனங்கள் மற்றும் சிறிய நிறுவனங்கள் பங்கேற்று நடைபெறயிருக்கிறது என்பதை உங்களுக்கு மகிழ்ச்சியோடு தெரிவித்துக் கொள்கிறேன்.

மாநில அளவிலான மாநாட்டிற்கு நம்முடைய உறுப்பினர்கள் முன் பதிவு செய்து அதிக அளவில் கலந்து கொள்ளுமாறு உங்களை அன்புடன் கேட்டுக் கொள்கிறேன்.

நம்முடைய தென்னக மய்யத்தின் 2017-18ம் வருடத்திற்கான புதிய நிர்வாகிகளை தேர்ந்தெடுப்பதற்கான தேர்தல் அடுத்த மாதம் நடைபெறயிருக்கிறது என்பதையும் உறுப்பினர்களாகிய உங்களுக்கு தெரிவிக்க கடமைப்பட்டுள்ளேன்.

29.12.2017 அன்று நமது தென்னக மய்யம் நடத்தும் மாதாந்திர Technical Training Programme - Basic Steel structure என்ற தலைப்பில் ஏற்பாடு செய்யப்பட்டு இதில் 100க்கும் மேற்பட்ட கட்டுனர்களுடைய Site Engineer கலந்து கொண்டு பயன்பெற்றார்கள். இதில் கார்த்திகேயன் அசோசியேட்ஸ் நிறுவனர் திரு. கார்த்திகேயன் அவர்கள் மிக சிறப்பாகவும் நேர்த்தியாகவும் அனைவரும் பயன் பெறும் வகையில் விளக்கியது மிகவும் பாராட்டத்தக்கது. இது போன்ற உறுப்பினர்களுக்கு பயன்தரக் கூடிய Training Programme-ல் கலந்து கொள்ள நம்முடைய உறுப்பினர்கள் அதிக ஆர்வம் காட்ட வேண்டும் என்று வேண்டுகோளையும் வைக்கின்றேன்

நன்றி வணக்கம்

அன்புடன்
K. வெங்கடேசன்.

05.11.2016 பவள விழா நிறைவு விழாவில் கட்டுநர் சங்க உறுப்பினர்களுக்கு அப்பல்லோ மருத்துவமனை 20% சிறப்புத் தள்ளுபடி - அப்பல்லோ மருத்துவமனையுடன் BAI - புரிந்துணர்வு ஒப்பந்தம்

Apollo HOSPITALS

November 5, 2016

The Chairman
Southern Centre
Builders Association of India
No: 11, Casa Blanca , 2nd Floor, Casa Major Road,
Egmore , Chennai – 600 008.

Sub : Empanelment of Apollo Hospitals

Greetings from Apollo Hospitals – Chennai.

We thank you for choosing Apollo Hospitals as the preferred healthcare partner.

Apollo hospital is at the forefront of medical technology and expertise. We provide complete range of latest diagnostic, medical and surgical facilities, across specialties.

Apollo Hospitals, Chennai is accredited by Joint Commission International (JCI) USA. An accredited hospital assures the best practices and ensures that the patient is in "safe" hands. JCI accreditation is the gold standard for US and European hospitals as it reflects the highest levels of patient care and patient safety. We have always striven to provide high-end tertiary care with a human touch and will continue to improve our services to keep pace with growing patient needs.

Highlights:

- The first Indian hospital to receive the Joint Commission International (JCI)USA accreditation the gold-standard in hospital certifications worldwide
- Rated Best Multi-specialty Private Hospital in Chennai by The Week magazine
- BS EN ISO 14001: 1996 for Environmental Management System
- BS EN ISO 9001: 2000 for Quality Management System
-

Medical Milestones:

- Touched 32 Million Lives
- Patients from 120 countries
- 130000 Cardiothoracic surgeries and 100000 Joint Replacement
- First Liver transplant in Children and Adults
- First Multi Organ transplant
- Performed above 7 million Preventive Health Checks
- Performed over 10000 kidney transplants
- Performed over 1260 liver transplants and 500 Bone Marrow transplant

Terms & Conditions

Price:

Special price is applicable only on mentioned below packages and cannot be clubbed with any other packages/tests/offers. Dependents (parents, spouse & children, till the age of 21) can also avail the packages.

Report Details:

For Health Checkup reports and medical summary will be handed over to the individuals

Billing and Payment:

SELF PAYMENT, No Credit

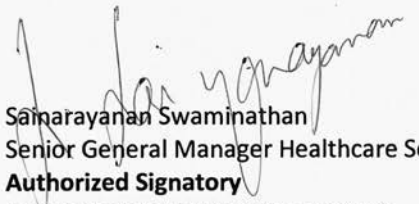
Validity:

This tie up is valid till 31st December 2018

Operational Procedure:

- Individuals should carry an authorization letter from the company for Credit payment.
- For any information or clarification please contact our relationship manager.
- Please report in empty stomach (No Tea, Coffee, Milk, Water exempted) by 7.30 am at AHC (Apollo Health Check) Registration Counter.
- If you are an old patient (i.e. already registered with Apollo), please remember to bring the Registration Number.
- Fixing up an appointment 1-2 days in advance, will reduce your waiting time at the Registration Counter on the day of Checkup. Remember to bring your earlier medical reports, if any.
- If it is Chennai, the report will be reach within 48 hours and out station 3 to 4 working days
- Dress up in loose/casual clothes, avoid wearing tight clothes.

Warm Regards



Sainarayanan Swaminathan
Senior General Manager Healthcare Services
Authorized Signatory
Apollo Hospitals Enterprise Limited

Accepted

K. Venkatesan
Chairman – Southern Centre
Authorized Signatory
Builders Association of India

Annexure I

PREVENTIVE HEALTH CHECKS

1. Apollo Master Health Check (AMHC)

HEAMOGRAM :

- Haemoglobin
- P.C.V
- R.B.C
- MCHC,MCV,MCH
- Total W.B.C.,
- Differential Count
- E.S.R
- Peripheral Smear
- Platelet Count

BIOCHEMICAL PARAMETERS:

- Fasting & HBA1C
- Urea &Creatinine
- Uric Acid

LIPID PROFILE:

- Total Cholesterol
- HDL Cholesterol
- LDL Cholesterol
- Triglycerides
- Total Cholesterol / HDL Ratio

LIVER FUNCTION TESTS :

- Total Protein/ Albumin / Globulin
- SGPT,SGOT
- Alkaline Phosphatase
- GGTP
- Serum Bilirubin

GENERAL TESTS:

- Blood Grouping - Rh Typing
- Complete Urine analysis
- Stool test
- E.C.G. (Resting)
- X-Ray (Chest)
- Ultrasonogram of the abdomen - (Screening only)

2.Apollo Executive Health Check (AEHC)

- **All the tests in AMHC** +
- Cardiac Stress Analysis (CSA/TMT)
- Pulmonary function test (PFT)
- Diet Counseling

Above packages include Clinical Examination, Medical summary and advice by one of the Senior Consultant Physician or Surgical Consult for men and Gynec Consult with Papsmear for Women.

3. Apollo Heart Check (AHC)

- **All Tests in A.E.H.C** +
- Echo Cardiogram
- Cardiac Consult

4. Apollo Diabetic Check (ADC)

- **All the tests in AMHC** +
- HbAic
- Urine Micral
- Diabetologist Consultation

5. Apollo Whole Body Check (AWBC)

- **All Tests in Apollo Heart Check** +
- Eye, ENT & Dental consults
- S.Calcium& Phosphorus,
- S.Electrolytes,S.Billirubin
- HbsAg
- Mammogram for Women (When indicated)
- P.S.A for Men & Mammogram for Women

Above packages include Clinical Examination, Medical summary and advice by one of the Senior Consultant Physician or Surgical Consult for men and Gynec Consult with Papsmear for Women.

Annexure – II

Offer for Builders Association of India

Services	Preventive Health Checks	Locations	Discount
MHC	Apollo Master Health Checkup (AMHC) Apollo Executive Health Checkup (AEHC) Apollo Heart Checkup (AHC) Apollo Diabetic Checkup (ADC) Apollo Whole Body Checkup (AWBC)	• Apollo Main Hospital • Apollo Heart Centre • Apollo Children's Hospital	20%
		• Apollo Specialty Hospital, Teynampet • Apollo First Med Hospital • Apollo Specialty Hospital, Vanagaram • Apollo City Centre , Sowcarpet • Apollo Women & Children Hospital , Karapakkam • Apollo Specialty Hospital OMR • Apollo Hospital, Tondiarpet • Apollo Specialty Hospital – Trichy • Apollo Hospital – Madurai • Apollo Hospital – Karur • Apollo Hospital - Karaikudi	30%

In & Out Patient services			
Services	**IP & OP**	**Locations**	
IP / OP	1.Laboratory test 2.Radiology 3.Room Rent	• Apollo Main Hospital • Apollo Heart Centre • Apollo Children's Hospital • Apollo Specialty Hospital, Teynampet	10%
		• Apollo First Med Hospital • Apollo Specialty Hospital, Vanagaram • Apollo City Centre , Sowcarpet • Apollo Women & Children Hospital, Karapakkam • Apollo Specialty Hospital – OMR • Apollo Hospital, Tondiarpet • Apollo Specialty Hospital – Trichy • Apollo Hospital – Madurai • Apollo Hospital – Karur • Apollo Hospital - Karaikudi	15%

(Except Medicines, Consumables, doctors' fees, Implants Packages)

Note: Special tariff will be applicable for all Employees, their spouse and their dependents.

*The discounts will not be applicable if the patients are covered under medical insurance / TPA. The discounts will be applicable only if the amount is settled directly. (By the company / employee / dependent)

Hospital Locations:

For All Location: single Point Contact
M. Rathish
Ph: +91 98414 39981 / +91 74011 14655
Email id: Rathisha_m@apollohospitals.com

S No	Name of the Location
•	**Apollo Hospitals** 21, Greams Lane, Off Greams Road Chennai 600 006 Ph: 044-28290200/3333 Fax: 044-28293524
•	**Apollo Specialty Hospitals** Padma Complex, 320, Annasalai, Chennai 600 035 Ph: 044-24336119/24363572 Fax: 044-24363646
•	**Apollo First Med Hospitals** 154, P H Road, Chennai 600 010 Ph: 044-2821 1111/ 2222 Fax: 044-2823 7470
•	**Apollo Hospitals – Tondiarpet** 645 & 646, T H Road, Chennai 600 081 Ph: 044-2591 3333 / 5533 Fax: 044-2591 5599
•	**Apollo City Center** 134/445, Mint Street, Opp to Ramar Temple, Sowcarpet, Chennai 600 079 Ph: 044-2529 6080/ 81/ 82/ 83
•	**Apollo Heart Center** 156, Greams Road, Chennai 600 006 Ph: 044-2829 6900/ 6901 Fax: 044-2829 4455
•	**Apollo Specialty Hospitals- Vanagaram** No.64, Vanagaram to Ambattur Main Road, Vanagaram, Chennai -95 Ph: 044 2653 7777

•	**Apollo Childrens Hospitals** No 15 Shafee Mohammed Road Thousand Lights, Chennai – 600 006. Ph: 044 – 2829 8282 / 6262 Fax: 91 – 44 –2829 8283
•	**Apollo Medical Centre** AA2/319, OMR, Karapakkam, Chennai- 600 097 Ph: 044- 2450 5700
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Demolition of RCC Framed Structures by Implosion Technology

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Introduction

Construction of RCC framed structures are carried-out with sufficient time, necessary support, safety and pre-planning activities. However, demolition is just the reverse of construction, carried-out in a few seconds, involving more risks and safety precautions. There are many methods available for demolition of multi-storied RCC buildings such as mechanical mean – hammering, pounding, using JCP/breakers, etc, chemical means – explosion, implosion, hydraulic means- Water jet, pneumatic compressor etc and combination of all.

Recently, 11 storied RCC residential building at Maoulivakkam, Chennai was demolished by implosion technique. It was performed meticulously, quickly and smoothly. The building was brought to ground in less than 10 seconds without causing disturbance to neighbouring building and it also gave confidence to the public on the technology and competency of our Engineers in demolition of RCC structures.

Basics of Demolition Using Chemical Explosives (Charges)

An explosion cause rapid increase in volume and release of mechanical, chemical or nuclear energy in a sudden and often violent manner with the generation of high temperature and usually with the release of gas. Implosion is a process in which objects are destroyed by collapsing on themselves. It is opposite of explosion and usually involves a difference between internal and external pressure, or inward and outward forces, that is so large that the structure collapses inward into itself.

Chemical explosive (eg crackers) cause noise and pressure during explosion. There are two type of explosives such as: Low explosive (eg. Gun powder, cordite) and High explosive (eg. Dynamite, PEK, PETN,RDX, Water gel and Emulsion etc). The characteristics of explosives are based on the following: (a) Sensitive to impact, friction, static discharge, (b) Stability in chemical and physical condition. (c) Cost and availability in the market. Low explosives are used for initiation of fire, pushing and lifting effect. Crackers use low explosives (ie less effect). High explosives are used for larger effects such as cutting, shattering, lifting, pushing and directional with shaped charges.

It is important to remember that burning of explosive will convert the mass of change into gas /smoke with little extra volume of the charge. But detonating the explosive /charge will produce thousand times of its volume and cause large amount of pressure, heat and sound. Detonation is a shock wave travelling with a speed of 2000m/s to 9000m/s with high pressure and temperature, which initiate the charge and get it exploded. The pressure wave cause the blasting and shattering effect. One has to channelize these energy and use it for the specific purpose. The detonation is done by giving shock waves to the charge by mean of detonators or knots in the cortex. Types of detonators are commercial, normal, electrical and timer.

Types of Explosives/ charges

Charges are classified based on its application. They are: cutting charge, footing charge, pressure charge and bore hole charge. Cutting charges are used for cutting the metal, wood and masonry by scissoring action. Footing charges are used for demolition of pier at the bottom of the structure. Pressure charges are used for demotion with pressure over RCC bridge / RCC structure. Bore hole charges are used for demolition of pier, wall, masonry abutment and concrete wall by drilling a hole , filled with charge and explode it.

Chain of Detonation. There are many items in the chain of demolotion and each will have specific action to perform during demolition. They are:

(a) Flame producer - An igniting agent eg. matches

(b) Flame carrier- To carry the ignition towards the charge, eg. safety fuse, its burning rate is 60cm/minutes (one cm/sec, the length is decided based on the time required to move out to safe place.

(c) Detonator - Change the low explosive flame into an initial detonating wave. An electrical impulse also be used as flame carrier and detonation.

(d) Cortex – To carry the initial detonating wave to the charge with a speed of 3000m/sec.

(e) Ring main circuit – It is prepared to ignite the charge simultaneously - Lap joint , Clove hitch ,y joint, D switch and American box are used to connect all the charges.

(f) Booster – To boost the detonating wave effect.

(g) Explosive Charges – It is the bulk expulsive which producer the explosion / implosion (Dynamites, PETN, PEK and RDX)

Demolition of Structures Using Implosion Technology

Every structure is designed for a life period. After that service life period, its existence become very dangerous to its occupants and surrounding buildings. The building act usually contains provisions to control demolition works for the protection of public safety and to ensure adjoining premises and the site are made good on completion of the demolition. Demolition of any structure is a ground to earth technique which means destroying or falling down of a building with the help of equipments, machineries, explosives or with manual techniques without affecting the surrounding. When explosives are used for this then the demolition processes are called as an implosion.

Implosion is the process of using minimum amount of explosives, with minimal structural preparation expense to get a structure to collapse in a controlled fashion. An implosion usually involves a difference between internal (lower) and external (higher) pressure, or inward and outward forces, that are so large that the structure collapses inward into itself. Building implosion techniques do not rely on the difference between internal and external pressure to collapse a structure. Instead, the technique weakens or removes critical supports so that the building can no longer withstand the force of gravity and falls under its own weight. Implosion method is adopted for high raised buildings in urban areas, where the other demolition methods are not acceptable.

In order to demolish a building safely, blasters must map out each element of the implosion ahead of time. The first step is to examine architectural blueprints of the building, if they can be located, to determine how the building is put together. Next, the blasting crew visits the building noting down notes about the support structure on each floor. Once they have gathered all the raw data they need, the blasters figure out a plan of attack. Drawing from past experiences with similar buildings, they decide what explosives to use, where to position them in the building and how to time their detonations. In some cases, the blasters may develop 3-D computer models of the structure so they can test out their plan ahead of time in a virtual world. Implosion is considered when the building to be demolished is surrounded by structures that must be preserved. Demolish the building in such a way that it collapses straight down into its own footprint (the total area at the base of the building).

Blasters will explode the major support columns on the lower floors first and then a few upper stories. For example, In a 20-story building, the blasters might blow the columns on the first and second floor, as well as the 12th and 15th floors. In most cases, blowing the support structures on the lower floors is sufficient for collapsing the building, but loading columns on upper floors ,helps break the building material into smaller pieces as it falls. This makes for a perfect demolition and easier cleanup following the blast.

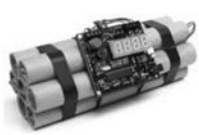
Charges Used for Implosion

Selection of the explosives used for the demolition is based on many factors. The most common explosives used for demolition are dynamites (straight, ammonia and gelatine), water gels, emulsions, PETN (penta-erythritol tetra-nitrate) and RDX (Cyclotrimethylene- trinitramine).

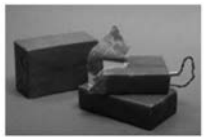
(a) Dynamite. Dynamite is a combination of nitroglycerin with inert filler, making the end product stable for handling. Dynamite is just absorbent stuffing soaked in a highly combustible chemical or mixture of chemicals. When the chemical is ignited, it burns quickly, producing a large volume of hot gas in a short amount of time. This gas expands rapidly, applying immense outward pressure (up to 600 tons per square inch) on whatever is around it. Blasters cram this explosive material into narrow bore holes drilled in the concrete columns. When the explosives are ignited, the sudden outward pressure sends a powerful shock wave busting through the column at supersonic speed, shattering the concrete into tiny chunks. For concrete columns, blasters use traditional dynamite. This has the advantages of being good to excellent for water resistance as well as being predictable and reliable. Dynamite comes in a wide range of small and medium-diameter cartridges of different lengths.

(b) Cyclotrimethylenetrinitramine (RDX). RDX-based explosive compounds expand at a very high rate of speed, up to 27,000 feet per second (8,230 meters per second). It is a high-velocity explosive. Instead of disintegrating the entire column, the concentrated, high-velocity pressure slices right through the steel, splitting it in half. Additionally, blasters may ignite dynamite on one side of the column to push it over in a particular direction. Demolishing steel columns is a bit more difficult, as the dense material is much stronger. To bring down the buildings with a steel support structure, blasters typically use this specialized explosive material cyclotrimethylenetrinitramine (RDX).

(c). Water Gel and Emulsions. This consists of water and chemical mixtures that are either water gels or emulsions. Water gels contain oxidizing salts and fuels that are dissolved in water. Emulsions are fine droplets of oxidizing salts and water surrounded by a fuel mixture of wax and oil. These explosives are even more stable. These products are available in several forms and sizes. The standard size used to demolish concrete and brick structures is 31mm diameter by 200mm long cartridge configuration or in bulk.



Dynamite



RDX

Water Gel

Quantity of Explosives

Blasters determine how much explosive material to use based largely on their own experience and the information provided by the architects and engineers who originally built the building. There are certain thumb rule calculations are adopted to estimate the quantity of charges for each types of member exploded. But most of the time, they won't depend on this data alone. To make sure they don't overload or under-load the support structure, the blasters perform a test blast on a few of the columns, which they wrap in a shield for safety. The blasters try out varying degrees of explosive material, and based on the effectiveness of each explosion, they determine the minimum explosive charge needed to demolish the columns. The cross-sectional dimensions of the column, its concrete compressive strength, its condition, and details of its reinforcement are all variables which affect the column charge quantity and type of explosive required. By using only the necessary amount of explosive material, the blasters minimize flying debris, reducing the likelihood of damaging nearby structures.

Placement of Explosives

Almost all the explosives used in implosions are placed in or on columns and load bearing walls. Columns at the lowest floor levels are the most important as that is where the stored potential energy in the structure is most effectively released. Usually, explosives will be placed on the lowest floor level and then are spaced out in blast floors along the height of the building, closer together at lower floors and more spread out at upper floors. The type of explosives placed on steel columns is very different than the ones used on reinforced concrete columns. Steel is very ductile and tough. Further, when the steel sections (flanges and webs) are thin, making internal confinement of explosives impossible, as compared to concrete columns, it can have explosives loaded into drilled holes. For steel columns, shaped charges are used.

For reinforced concrete columns, holes are first drilled in the column, the cartridge explosive is placed in the hole and stemming are placed in the balance of the hole to confine the charge. When the explosive detonates, the concrete in the column is fragmented, leaving the reinforcing bars bent, but intact. When tightly pitched spirals or stirrups are encountered, they must often be exposed and cut first, depending on structural analysis allowances, site conditions and possible live loading. If they are uncut, unfractured concrete might remain and the column may retain some of its load carrying capacity. Hence, tight spirals and other robust reinforcing in concrete columns help resist progressive collapse. This is one of the reasons that reinforced concrete structures designed to resist intense earthquakes have some innate resistance to explosives, because their columns contain tight spirals

To further reduce flying debris, each column may be wrapped with chain-link fencing and geotextile fabric. The fence keeps the large chunks of concrete from flying out, and the fabric catches most of the smaller bits. Blasters also wrap fabric around the outside of each floor that is rigged with explosives. This acts as an extra net to contain any exploding concrete that tears through the material around each individual column. Structures surrounding the building may also be covered to protect them from flying debris and the pressure of the explosions. The loading of the column and wrapping with a proper cover is shown in figure.

Electrical Detonator

Shock wave is applied to ignite both RDX and dynamite. In building demolition, blasters accomplish this with a blasting cap, a small amount of explosive material (primer charge) connected to some sort of fuse. The traditional fuse is a long cord with explosive material inside. When one end of the cord is ignited, the explosive material inside it burns at a steady pace, and the flame travels down the cord to the detonator on the other end. When it reaches this point, it sets off the primary charge. Generally blasters use an electrical detonator instead of a traditional fuse. An electrical detonator fuse is just a long length of electrical wire. At the detonator end, the wire is surrounded by a layer of explosive material. This detonator is attached directly to the primer charge affixed to the main explosives. When current is passed through the wire (by hooking it up to a battery), electrical resistance causes the wire to heat up. This heat ignites the flammable substance on the detonator end, which in turn sets off the primer charge, which triggers the main explosives.

Sequence of Detonations

The concept of implosion is to create an almost fluid motion in the collapse of the building. This methodology reduces the ground impact and resultant vibration. Carefully designed building implosions create ground vibrations less than 25 mm/s peak particle velocity. Columns at the bottom of the building are detonated first to make maximum amount of potential energy available immediately to get the progressive collapse. Columns at other

Columns fully loaded with explosives and hooked up to blasting caps and fuses.

floors are detonated anywhere from a few milliseconds to several seconds later to help fragment the building debris or control its fall direction and velocity.

Timing of detonations between columns is part art, part science and all experience. There is chance of building to get pancake if the detonations are too close together and portions of the building may expand outward in random directions. Too far apart and the fluid motion is disrupted. More explosives would be needed to overcome the inertia of the building between each spill. More importantly, an interruption of the fluid motion can cause elements to disengage, causing complete loss of control over the trajectory of the structure. When a column is detonated, the structure above begins to accelerate towards the ground at less than 10 m/s2 freefall. The actual acceleration is less than the acceleration of gravity because still standing portions of the structure act to arrest its fall, resisting moment or consuming kinetic energy as elements are crushed. The forward momentum can be slowed or stopped by because of naturally occurring alternate load paths in the structure.

During a building implosion, the detonations are timed so that just before the alternate load path is created, the adjacent column line is detonated to allow continuity of the progressive failure. Therefore, assuming freefall, if there was a one second delay between adjacent column lines, the column line just detonated would have dropped almost 6.0 m thereby impacting the ground before the next column line is detonated. This eventuality is to be avoided as a premature ground impact by a portion of the structure may redirect the still standing portions into unexpected directions.

General Steps in Demolition

Pre-Planning of Demolition Activity. Pre-Planning of the Demolition activity starts with Surveying of the site. Study of different parameters of the structure and its surroundings with structural point of view is carried out in surveying.

Stability Report. The Demolition Plan must accompanied by a stability report with supporting calculations. The stability report should include demolition calculations and use of the plants and equipment to accomplish the task safely and smoothly.

Safety Measures. (a) Training and Communication. Demolition workers, including plant or equipment operators, shall go through proper job safety training and be aware of the potential hazards by attending training sessions as well as on-the-job training. (b) Equipment Maintenance. All equipment shall be examined before use. They shall be properly tested, stored and maintained. (c) Electrical Safety. A properly connected power source from a local electric utility supplier or a mobile electricity generator shall be utilized in demolition sites. Fire. All flammable goods shall be removed from site unless they are necessary for the works involved. (d) Vibration. Demolition work will cause vibration to neighboring buildings or structures to various extents, depending on the method of demolition.

Demolition of 11 storied RCC building at Moulivakkam, Chennai

The second block of 11 storied under-construction buildings at Moulivakkam was brought down by adopting the implosion technique around 6 PM on 02 November 2016. This was decided after a discussion of revenue officials of Kancheepuram district with the Tirupur-based Maglink Infra Project Limited officials. The company was awarded the contract by Chennai Metropolitan Development Authority.

Demolition team had drilled the interior columns in basement, ground and fifth floor and filled the explosives. All the charges were connected with electrical circuit. The basement column were demolished first, the ground floor columns were demolished after 2 seconds and the fifth floor columns were demolished after 5 seconds. Thereafter, the entire building was brought down to the ground in few seconds.

11 storied under-construction buildings at Moulivakkam

Conclusion

Demolition method applied in a structure depends upon various factors such as site condition, type of structures, age of building, height of building and economy and most important its location with presence of its surrounding with its structural stability. Controlled demolition of building is necessary to ensure safety of both the workers and the surroundings so as to cause least amount of injuries and accidents. Building implosion is the strategic placing of explosive materials and timing of its detonation so that a structure collapses on itself in a matter of seconds, minimizing the physical damage to its immediate surroundings. Despite its terminology, building implosion also includes the controlled demolition of other structures, such as bridges, smokestacks, towers, and tunnels.

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Builders' Association of India

Tamilnadu State Level Convention

(Tamilnadu, Pondicherry, Andaman & Nichobar Islands)

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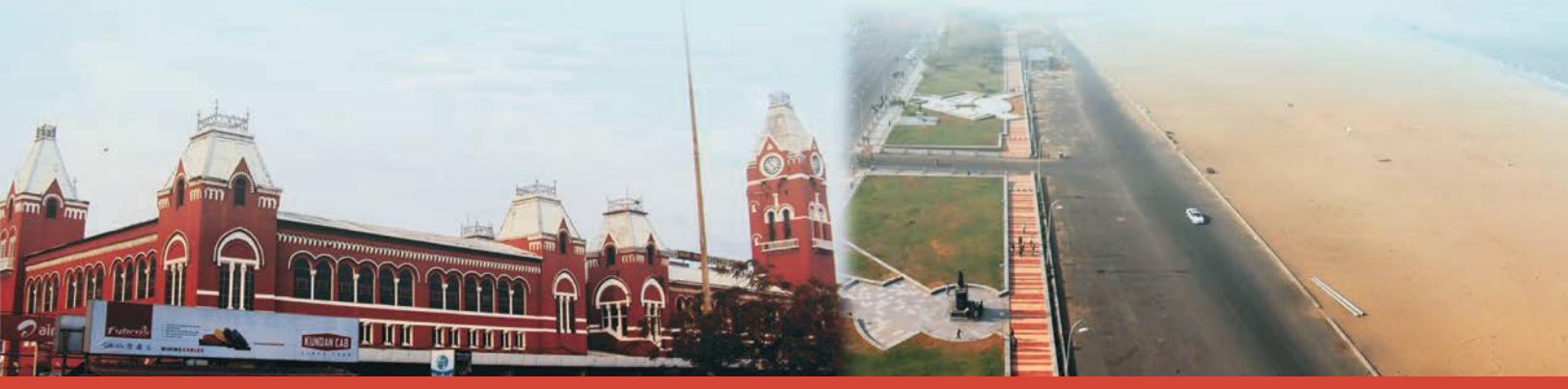
6th State Level MC/GC Meeting

Estd: 1941



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BUILDERS'ASSOCIATION OF INDIA

SOUTHERN CENTRE

SOUTHERN CENTRE
ESTD 1950

Date & Venue

15th & 16th February, 2017
Convention Hall,
Chennai Trade Centre, Nandambakkam
Chennai

Estd: 1941

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Builders' Association of India

Tamilnadu State Level Convention

(Tamilnadu, Pondicherry, Andaman & Nichobar Islands)

&

6th State Level MC/GC Meeting

PROGRAMME

Wednesday, February 15, 2017

9.00 AM	Registration
9.30 AM	State Level MC/GC Meeting
11.30 AM	Tea Break
1.00 PM	Lunch
5.00 PM	Cultural Programme
6.00 PM	Inaugural Function of Tamil Nadu State Level Convention
8.00 PM	Entertainment. Fellowship and Dinner

Thursday, February 16, 2017

10.00 AM	Opening Ceremony BAIMAT .2017
11.30 AM	Technical Session .1
12.30 PM	Technical Session –II
1.30 PM	Lunch
5.00 PM	Cultural Programme
6.00 PM	Valedictory Function
8.00 PM	Entertainment, Fellowship and Dinner

Note: - State Level Meeting is exclusively for MC/GC Members only
State Level Convention Participants are required Registration

Builders' Association of India

Tamilnadu State Level Convention

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Builders' Association of India Southern Centre

Tamilnadu state Level Convention

(Tamilnadu,Pondicherry,Andaman & Nicobar Islands) &

6th State Level MC/GC Meeting

15th & 16th February,2017

REGISTRATION FORM

Details of MC/GC Member

Tick

STATE LEVEL MC/GC MEETING ☐

CONVENTION ☐

Name: Mob. No.:

Centre: E-Mail :

Address :

MC Member ☐ GC Member ☐ Member ☐

Delegates fees for Convention,Member :Rs.3000/- Person,Spouse :Rs.2000/-

Cheque in favour of "Builders Association of India"

ARRIVAL /DEPARTURE DETAILS

Arrival Details ☐ Flight ☐ Train ☐ Other Transport

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Departure Date & Time: Departure From:

ACCOMMODATION DETAILS (Please tick your choice)

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Note: Only MC/GC Members and Committee Chairman are eligible to attend the State Level Meeting

Kindly Register on or before 7th February,2017

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EXHIBITION FOR CONSTRUCTION MATERIALS & TECHNOLOGY

16-19 Feb 2017 | Chennai Trade Centre, Nandambakkam, Chennai

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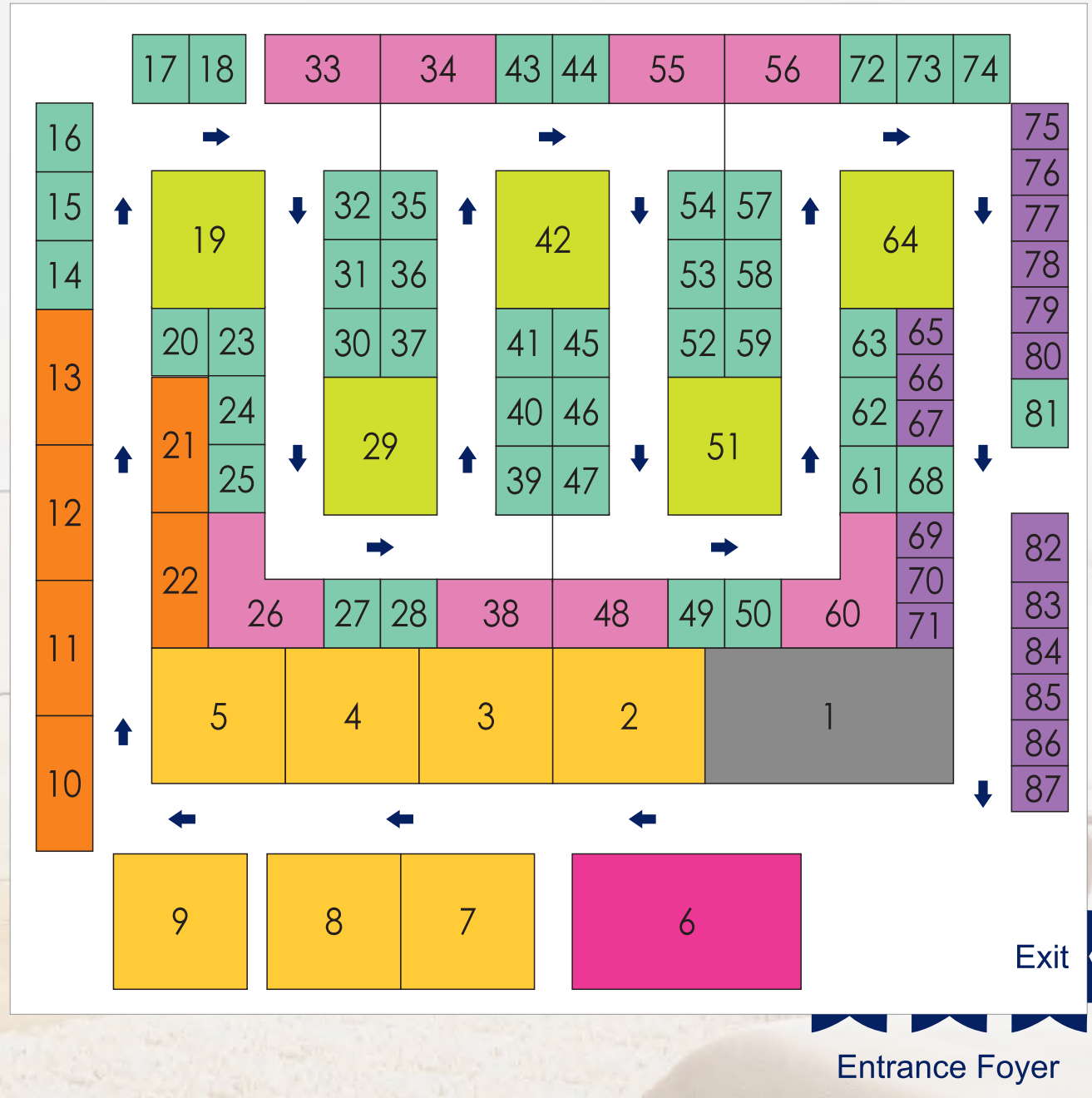
STALL LAYOUT



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EXHIBITION FOR CONSTRUCTION MATERIALS & TECHNOLOGY

16-19 Feb 2017 | Chennai Trade Centre, Nandambakkam, Chennai

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Diamond sponsor (12m x 6m) 72sq.m	₹ 4.5 Lakhs
Gold sponsor (7m x 6m) 42sq.m	₹ 3 Lakhs
Silver sponsor-I (6m x 6m) 36sq.m	₹ 2 Lakhs
Silver sponsor-II 27sq.m	₹ 1.35 Lakhs
Premium Stall (6m x 3m) 18sq.m	₹ 1.5 Lakhs
Regular Stall (3m x 3m) 9sq.m	₹ 54,000/-
Economic Stall (3m x 2m) 6sq.m	₹ 35,000/-

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பவள விழா நிறைவு விழாவில் வெளியிடப்பட்ட சிறப்புத் தபால்தலை

பவள விழா நிறைவு விழாவில் அகில இந்திய காப்பாளர் திரு. D.L. தேசாய் அவர்களுக்கு வழங்கப்பட்ட விருது மும்பையில் வழங்கப்பட்டது.

Steel Structures

Er. A.Karthikeyan
ME, MIE,
Chartered Engineer, Structural & Geo-Tech Consultant

STEEL STRUCTURES

BY
Er.A.KARTHIKEYAN,M.E,MIE
Chartered Engineer,
Professional Engineer,
Structural & Geo-Tech Consultant,
Arumbakkam, Chennai.

DIFFERENCE B/W IRON AND STEEL

IRON	STEEL
Iron is a hard grey metal and heavier than any other elements found on earth.	Steel is produced from iron ore and other metals it is called as alloy of irons.
Brittle more damping and absorbs vibration.	Ductile, Mild and harder to cast.
It is in molten form it is sufficient enough of making any kind.	Steel if it is grinded formed as chips it is malleable in nature.
Iron has low melting point	Steel is mild harder.

HISTORY OF STEEL STRUCTURES

Steel is not a modern material…

But steel is being used since 3000BC..!

1780-1840	**Cast Iron. Arch-shaped bridges up to 30m span.**
1840-1890	**Wrought Iron Spans up to 100m.**
1870-1920	**Bessemer Converter Introduction to Carbon Steel.**
1920-Todate	**Third most popular construction material after Concrete and Timber.**

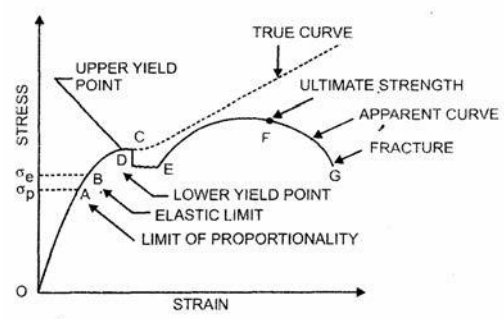
MECHANICAL PROPERTIES OF STEEL

Mechanical properties	Magnitude
Modulus of Elasticity (E)	2×10^5 Mpa
Modulus of Rigidity (E)	0.769×10^5 Mpa
Poisson's ratio (μ)	
1.Elastic range	0.30
2.Plastic range	0.50
Unit mass of steel	7850Kg/C (78.5KN/m^3)
Coefficient of thermal expansion	$12x10^6$ /°C
Brinell hardness no.	150-190
Rockwell hardness no.	157-190
Approximate melting point	1530°C
Thermal conductivity	0.14cal/cm^2

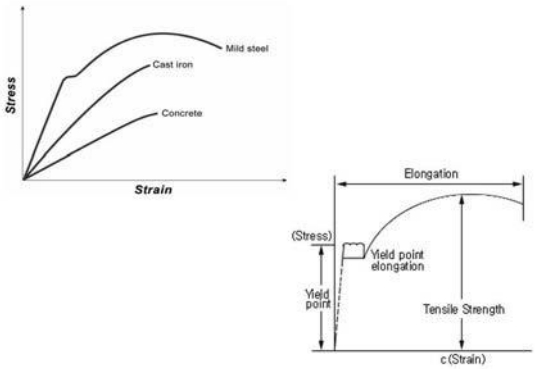
ABOUT THE STEEL

- There is difference between Iron and Steel.
- Iron is an Element -Fe
- Steel is an alloy.
- Steel is a alloy consist of iron, Carbon(0.25%), Manganese(1.5%), Chromium(0.75%), Nickel(1.75%), Phosphorous(0.05%) and molybdenum.
- Yield strength
- Yield stress is the most important strength characteristics of a structural steel.
- The thermo mechanically treated (TMT) steel performs much better structurally even under fire than ordinary steel.

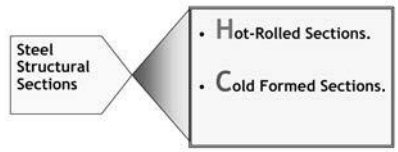
STRESS – STRAIN CURVE FOR MILD STEEL



DUCTILITY OF STEEL



TYPES OF STEEL SECTIONS



ADVANTAGES

High strength:
The strength/weight ratio of steel is about 3.5times more than the normally used concrete material.

Durability:
The property of material to undergo excessive deformation without significant loss of strength and stiffness.

Ductility:
Ductility is the property of material to undergo deformation before the failure of rupture.

Prefabrication:
This results in speedy construction, saving in time and expenses ensuring better quality of finished structures.

Demountability:
The steel structures can be disassembled and reused where ever required.

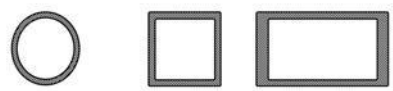
• Hot-Rolled Sections.

The billets, blooms and slabs are heated at 1200ºC to make metal malleable and then rolled into finished products.

SOLID SECTIONS:

L-SECTION I-SECTION CHANNAL SECTION RODS

HOLLOW SECTIONS:



CIRCULAR SQURE RECTANGULAR

LIMITATIONS

Corrosion:
Steel structures are susceptible to corrosion when fully exposed to air and water. Therefore ,they need periodic maintenance.

Buckling failure:
The longer and slender compression members are susceptible to buckling due to which full strength of steel can not be utilized.

Cost:
The cost of steel structures, in many cases ,works out to be more than the concrete structures.

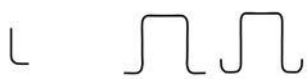
Skilled man power:
Both members and connections requires skilled man power for fabrication and erosions "every mm counts"

Market availability:
Ready mad most of the materials designer has to check the market available of finale shed drawings.

Noise in erection:
The metallic sound during fabrication and erection is annoying .

• Cold Formed Sections

(a) Channels (b) Zees (c) I-shaped double channels



(d) Angles (e) Hat sections

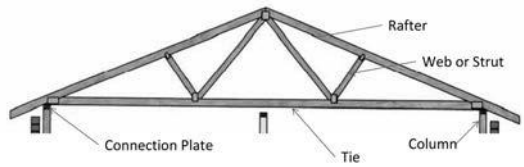
DIFFERENCE B/W HOT ROLLED AND COLD FORMED STRUCTURES

Factors	Hot Rolled Characters	Cold Formed Characters
Layout orientation	The material characters are identical in all directions.	Care must be exercised in layout, materials are deformed during the rolling process.
Price	Less expensive	More expensive
Strength	Strong	Stronger
Weldability	Excellent for welding	Not advisable
Surface finish	Good	Very Good

TRUSSES

Trusses serves for longer spans with light weight coverings.

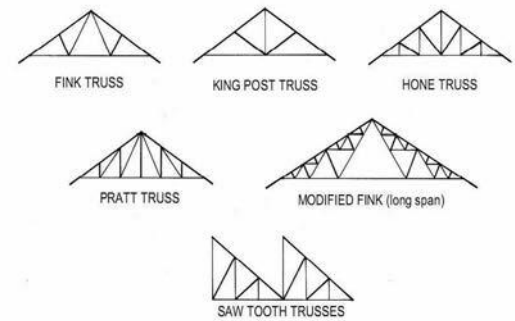
Suitable for Industries, Auditoriums, Theaters etc.,



CLASSIFICATION OF STEEL STRUCTURES

- Tension member
- Compression member
- Truss systems and frame systems
- Built up members and structures
- Shell structures
- Suspension structures

TYPE OF TRUSSES



TENSION MEMBERS

Primarily occurs as

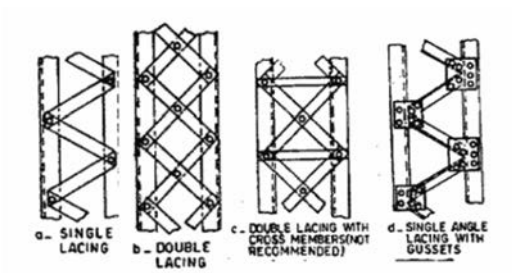
- Chord members in trusses.
- In diagonal bracing in bracing systems.

COMPRESSION MEMBERS

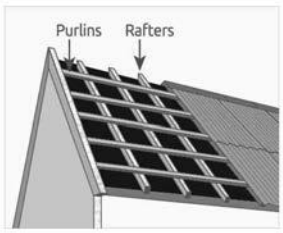
Primarily occurs as

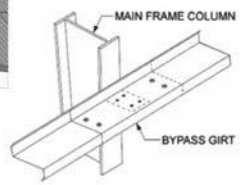
- Column in buildings.
- Chord members in trusses and diagonal members in end panel of trusses.

BUILT-UP SECTION USING LACINGS AND BATTENS



PURLINS AND GRITS





TYPE OF CONNECTIONS

Bolt Connection:

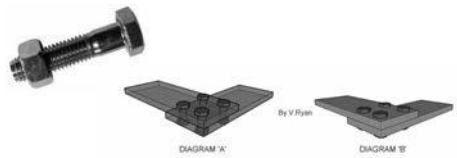
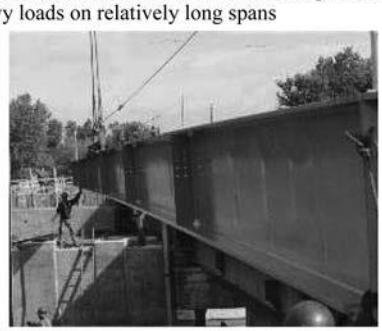


PLATE GRIDERS

A girder is a flexural member which is required to carry heavy loads on relatively long spans

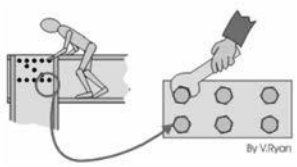


TYPES OF BOLTS

1. M.S.Bolts
2. High strength Bolts(8.8Grade)
3. High strength friction grip bolts(8.8Grade)
4. High performance anchors
5. Chemical grouted anchors
6. Mechanical driven anchors

CONNECTIONS

None of the steel joints are monolithic either bolted or welded connections make them intact.

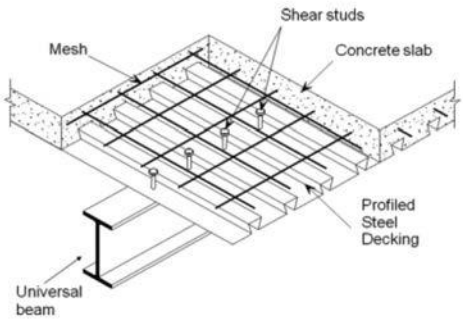


WELDED CONNECTION

- Another common method for connecting structural steel is welding
- Welding can be performed in the shop or in the field
- Many fabrication shops prefer to weld rather than bolt
- Welding in the field is avoided if possible due to welding condition requirements
- There are several welding processes, types, and positions to be considered in building construction
- Arc and Gas welding common types of weldings.

24

STEEL DECK FLOORS



INDIAN STANDARD

IS 800 : 2007

भारतीय मानक

इस्पात में सामान्य निर्माण — रीति संहिता

(तीसरा पुनरीक्षण)

Indian Standard

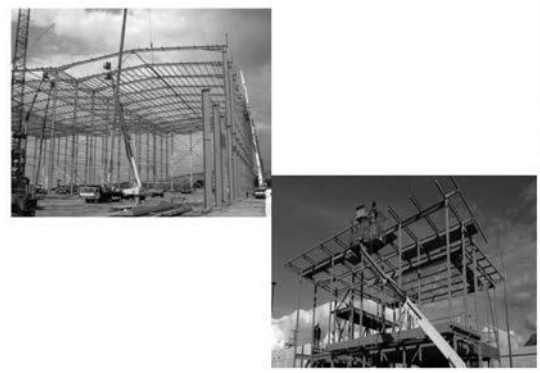
GENERAL CONSTRUCTION IN STEEL — CODE OF PRACTICE

(Third Revision)

ICS 77.140.01

BUREAU OF INDIAN STANDARDS

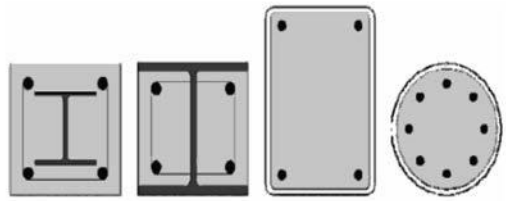
ERECTIONS



FABRICATION AND ERECTION

WAIST SLAB SUPPORT BY STEEL BRACKETS

STEEL CONCRETE COMPOSITE STRUCTURES



STEEL STRUCTURE RENOVATION

APPLICATION OF STEEL STRUCTURES IN ARCHITECTURAL ASPECTS

Architect prefer elegant structure most of them choose sleek, flexible, economical and fast solutions.

Steel is most satisfying materials.

Knowledge about a steel structure is the important requirement for Architects and Engineers.

REPAIR AND REHABILITATION BY STEEL STRUCTURE

A DOME CONSTRUCTED WITH STEEL STRUCTURE AND FERRO-CEMENT

VIEW OF DOME AFTER FINISH

STEEL STRUCTURE REPAIRS CONCRETE STRUCTURE'S MISTAKES

MISCELLANEOUS STEEL STRUCTURES

INSDAG-INSTITUTE FOR STEEL DEVELOPMENT AND GROWTH

INSDAG being run by government of India ministry of steel established with steel fabrication institute UK. It is non profit motive members based organization.

INSDAG strives to expand the use of steel in Residential, Commercial, Infrastructure, Industrial and Rural segments of the construction industry.

INSDAG organizes a series of seminars and workshops which act as a platform for all connected to the steel value chain.

Web Site: www.steel-insdag.org

CONCLUSION

Steel structure are still viewed as temporary structures and highly vulnerable to corrosion but practical life gives lessons as….

Steel is eco friendly durable fast track material but people mind set is not altered genetically

Skill plays a major role in steel structures it is viewed as a disadvantage but it is an advantage because unprofessional people cannot enter in this field.

THANK YOU

Web site: www.karthikeyanassociates.com
E-mail: karthikeyanassociates@gmail.com
Ph. No.: 044-65631941

TAX CORNER

S.D. Kannan
Chairman, Taxation Committee

I. GST DEADLINE DEFERRED TO JULY 1 2017 : FM ARUN JAITLEY

Finance Minister Arun Jaitley has addressed the media after 9th GST Council meeting and said that GST deadline is deferred to 1st July 2017 and Center and States has come to Consensus on all pending issues. Some of the highlights of his media briefing is as follows:-

1. The entire taxation base will be shared between the assessment and machinery of the Centre and the states.

2. Those above turnover 1.5 crores would be assessed in the ratio of 50:50 between Centre and state.

3. All assesses with GST turnover of Rs. 1.5 crore or less, 90 per cent of them will be assessed by States & 10 per cent by administrative machinery of Centre. The agreement hammered out was based on a proposal by Tamil Nadu.

4. Each assessee would be assessed only by one authority only.

5. Computer programming will be done in such a way that there is no discretion (in selection of assessees)

6. power to levy and collect the I-GST lies with the central government but states will also be cross-empowered in the same ratio as above through a special provision in law. Any IGST disputes among states will be resolved by the Centre.

7. Centre also ceded ground on taxation rights over the sea. Territorial waters extending to 12 nautical miles fall under control of the union government but as per convention, states will be empowered to collect tax on any economic activity in this zone.

8. GST deadline has been deferred to July 1. The government earlier set April 1 as the GST roll-out deadline.

II. TDS PROCEDURE UNDER GST ACT

GST Payment regime:

In the GST regime, for any intra-state supply, taxes to be paid are the Central GST (CGST, going into the account of the Central Government) and the State GST (SGST, going into the account of the concerned State Government). For any inter-state supply, tax to be paid is Integrated GST (IGST) which will have components of both CGST and SGST. In addition, certain categories of registered persons will be required to pay to the government account

Tax Deducted at Source (TDS). Here, we will try to understand procedures related to TDS under revised model law.

What is TDS?

Sec 46 of revised GST law: (1) notwithstanding anything contained to the contrary in this Act, the Central or a State Government may mandate, -

(a) a department or establishment of the Central or State Government, or

(b) Local authority, or

(c) Governmental agencies, or

(d) such persons or category of persons as may be notified, by the Central or a State Government on the recommendations of the Council,

[hereinafter referred to in this section as "the deductor"], to deduct tax at the rate of one percent from the payment made or credited to the supplier [hereinafter referred to in this section as "the deductee"] of taxable goods and/or services, notified by the Central or a State Government on the recommendations of the Council, where the total value of such supply, under a contract, exceeds five lakh rupees.

This provision is meant for Government and Government undertakings and other notified entities making contractual payments in excess of Rs.5 Lakhs to suppliers. While making such payment, the concerned Government/authority shall deduct 1% of the total payable amount and remit it into the appropriate GST account (either of central government or state government as may be applicable to deductor).

Value of supply on which TDS shall be deducted:

The value of supply shall be taken as the amount excluding the tax indicated in the invoice. This means TDS shall not be deducted on the CGST, SGST or IGST component of invoice.

To whom TDS shall be paid:

TDS shall be paid within 10 days from the end of the month in which tax is deducted. The payment shall be made to appropriate government. As per sec 2(11) of revised GST model law **appropriate Government** means the Central Government in case of the IGST and the CGST, and the State government in case of the SGST. Further following procedural compliances shall be done by deductor:

1. Such deductors needs to get compulsorily registered under section 23 read with Schedule IV of revised Model GST Law.
2. Such deductor shall have TAN issued under income tax act to get registered under the act.

3. They need to remit such TDS collected by the 10th day of the month succeeding the month in which TDS was collected and reported in GSTR 7.
4. The amount deposited as TDS will be reflected in the electronic cash ledger of the supplier.
5. They need to issue certificate of such TDS to the deductee within 5 days of deducting TDS mentioning therein the contract value, rate of deduction, amount deducted, amount paid to the appropriate Government and such particulars as may be prescribed.
6. Non deduction / short deduction / non payment or short payment of TDS is on offence under the act for which a minimum penalty of Rs 10000/- is prescribed under the act.

How deductee can claim benefit of TDS:

The deductee shall claim credit, in his electronic cash ledger, of the tax deducted and reflected in the return of the deductor furnished under sub-section (3) of section 34, in the manner prescribed. Any amount deducted as TDS and reported in GSTR – 7 will automatically reflected in electronic cash ledger.

Refund of excess amount deducted:

1. In case amount is claim by deductee in electronic cash ledger:

Refund to deductor is not possible such case. However, deductee can claim refund of tax subject to refund provisions of the act. Practically it is not possible to claim any erroneous deduction of TDS by deductor.

2. In case amount is not so claimed by deductee.

Refund of erroneous excess TDS deducted is possible to deductor subject to refund provision and procedure of the act.

Date of Birth : 21-9-1940
Date of Death : 1-12-2016

வருந்துகிறோம்

தென்னக மய்யத்தின் முன்னாள் மய்யத்தலைவர் திரு. R. ராமன் அவர்களின் மறைவிற்கு தென்னக மய்யம் தனது ஆழ்ந்த இரங்கலை தெரிவித்துக்கொள்கிறது.

SOUTHERN CENTRE ACTIVITIES

09/12/2016: Affiliated Association of Meeting

Affiliated Association Meeting ஓட்டல் குயின்ஸ் பார்க் - தி. நகர் சென்னை-17ல் நடைபெற்றது. இக்கூட்டத்தில் தென்னக மய்ய அலுவலக நிர்வாகிகள் மற்றும் பல்வேறு Affiliated Association அலுவலக நிர்வாகிகள் உள்பட 15 பேர் கலந்து கொண்டனர்.

12.12.2016: அகில இந்திய மேலாண்மை மற்றும் பொதுக்குழு கூட்டம்

அகில இந்திய 5வது மேலாண்மைக்குழு மற்றும் 3வது பொதுக்குழு கூட்டம் அரியானா மாநிலம் Gurgaon-ல் நடைபெற்றது. இக்கூட்டத்தில் அகில இந்திய முன்னாள் தலைவர் திரு. R. இராதாகிருட்டிணன், மய்யத்தலைவர் திரு. K. வெங்கடேசன், அகில இந்திய துணைத்தலைவர் திரு. Mu. மோகன், மய்யத்துணைத்தலைவர் திரு. L. வெங்கடேசன், மாநிலத்தலைவர் திரு. M. திருசங்கு, தென் பிராந்திய செயலாளர் திரு. R. சிவக்குமார், மோலாண்மைக்குழு உறுப்பினர்கள் டாக்டர். D. தூகாராம், திரு. S. கணபதி, திரு. R. எத்திராஜன், பொதுக்குழு உறுப்பினர் திரு. M.N. பாலசுந்தரம், நிரந்தர உறுப்பினர் திரு. R. கிருஷ்ணமூர்த்தி ஆகியோர் கலந்து கொண்டு சிறப்பித்தனர்.

22.12.2016: மாநில அளவிலான பொதுக்குழு கூட்டம்

ஐந்தாவது மாநில அளவலான பொதுக்குழு கூட்டம் ஏற்காடு, சேலத்தில் மிகவும் சிறப்பாக நடைபெற்றது. இக்கூட்டம் சேலம் மய்யத்தால் ஏற்பாடு செய்யப்பட்டது. தென்னக மய்யம் சார்பாக மூத்த தலைவர்கள், அலுவலக நிர்வாகிகள், செயற்குழு, பொதுக்குழு மற்றும் மேலாண்மைக்குழு உறுப்பினர்கள் உள்பட 45 உறுப்பினர்கள் கலந்து கொண்டு சிறப்பித்தனர்.

26.12.2016: சிங்காரச் சென்னை கட்டுநர்கள்

சங்கம் சார்பாக ஏற்பாடு பொதுக்குழு கூட்டத்தில் மய்யத்தலைவர் திரு. K. வெங்கடேசன அவர்கள் சிறப்பு விருந்தினராக கலந்து கொண்டு உரையாற்றினார். இக்கூட்டம் காஸ்மோ பாலிதன் கிளப், நந்தனம், சென்னை 35ல் நடைபெற்றது.

27.12.2016: வருடாந்திர மகாசபைக் கூட்டம்

தென்னக கட்டுமான ஆராய்ச்சி மற்றும் மேம்பாடு சேவை சங்கத்தின் வருடாந்திர மகாசபைக் கூட்டம் மேற்கண்ட அலுவலகத்தில் மாலை 4 மணி அளவில் நடைபெற்றது. இக்கூட்டத்தில் திரு. K. அண்ணாமலை தலைவராகவும், திரு. A. கலையரசன் துணைத்தலைவராகவும், திரு. A. சத்தியநாராயணா செயலாளராகவும் மற்றும் திரு. R. இராஜேந்திரன் பொருளாளராகவும் தேர்ந்தெடுக்கபபட்டனர். இக்கூட்டத்தில் மய்யத்தலைவர் திரு. K. வெஙகடேசன் மற்றும் அலுவலக நிர்வாகிகள் அகில இந்திய துணைத்தலைவர் திரு.Mu. மோகன் மற்றும் சங்கத்தின் உறுப்பினர்கள் கலந்து கொண்டனர்.

29.12.2016: தொழிலாளர் பயிற்சி முகாம்

Basic of Steel Structure பற்றிய பொருள் மீது தொழிலாளர் பயிற்சி முகாம் சொசைட்டி அலுவலக வளாகத்தில் மாலை 4 மணி அளவில் தென்னக மய்யம் சார்பாக ஏற்பாடு செய்யப்பட்டது. திரு. S. இராமப்பிரபு கவுரவச் செயலாளர் அனைவரையும் வரவேற்று பேசினார். மய்யத்தலைவர் திரு. K. வெங்கடேசன பயிற்சி முகாமை துவக்கி வைத்து பேசுகையில் எதிர்காலத்தில் தேவைப்படும் முன்னேற்றங்களை மனதில் கொண்டு பயிற்சி பெற வேண்டும் என்று கேட்டுக் கொண்டார். பயிற்சி முகாம் குழுத்தலைவர் திரு. V.S.B. சுந்தர் அவர்கள் தென்னக மய்யம் தொழிலுளர்கள் திறமையை மேம்படுத்தும் விதமாக பல்வேறு பயிற்சி முகாம்களை நடத்துவதைப்பற்றி விவரித்தார். M/s. Karthikeyan Associates நிறுவனத்தலைவர் திரு. A. கார்த்திகேயன், Chartered Engineer, Professional Engineer மேற்கண்ட பொருள் மீது பயிற்சி முகாமை மிகவும் சிறப்பான எளிதான முறையில் நடத்தினார். இந்த பயிற்சியில் 40க்கும் மேற்பட்ட Site Engineer /Site Supervisor கலந்து கொண்டு பயன்பெற்றனர். மேலும் தென்னக மய்ய அலுவலக நிர்வாகிகள் மூத்த தலைவர்கள் செயற்குழு மற்றும பொதுக்குழு உறுப்பினர்கள் கலந்து கொண்டு சிறப்பித்தனர்.

பவள விழா நிறைவு விழா பற்றி உறுப்பினர்களின் வாழ்த்துக்கள்

- **பவள விழாவின் நிறைவு விழா நிறைவாக இருந்தது** பவள விழா மற்றும் அகில இந்திய அளவிலான MC/GC கூட்டத்தின் ஏற்பாடுகள் அனைத்து நிகழ்வுகளும் மிகவும் நேர்த்தியாகவும் உயர் தரத்திலும் இருந்தது. தென்னக மய்யத்திற்கும் அதன் நிர்வாகிகள் மற்றும் உறுப்பினர்கள் அனைவருக்கும் பாராட்டுக்கள் தென்னக மய்யத்தின் உழைப்பும் அவர்கள் அனைவரின் பங்களிப்பும் நம்மை (கட்டுநர் சங்கத்தை) உற்சாகப்படுத்துவதாக உள்ளது. வாழ்த்துக்கள் - **ஆனந்தன் - தஞ்சை மய்யத்தலைவர்**
- அனைத்து ஏற்பாடுகளும் அருமை. தென்னக மய்யத்திற்கு நன்றி, - **SKM - பெரிய கருப்பன், பொதுக்குழு உறுப்பினர். செட்டிநாடு மய்யம்**

- Good evening to all organisers of BAI PLATINUM JUBILEE Good transport arrangements, nice programs at chennai trade centre selection of venue was fine for MC GC meeting. Valuable gift which indicates the punctuality in the program. Sri Venkayya Naidu Garu addressed well on the construction industry. Releasing of postal cover and journey book is appreciable .wonderful farewell party We thanks to Sri Bhishma Radha krishnan in this regard And also Thanks to Sri Venkatesan southern centre chairman and Sri k Ramanujam chairman organising committee Thanks to transport committee chairman. - Soma srinivas reddy, Bai nalgonda chairman
- Jubilee celebrations by Southern center under the guidance of Brahmarshi Radhakrishnan. We greatly acknowledged the hospitality.Congrats.Rajababu P, Vijayawada.AP
- TO SOUTHERN CENTRE, AND THANKS FOR YOUR HOSTING YOU DONE A GOOD JOB -WARANGAL CENTRE
- Superb sukcees platinum jubilee function congrats to southern central bai chairman and Bhima and members Radha Bai: GOOD MORNING TO SOUTHERN CENTRE. THANKS FOR YOUR GOOD HOSPITALITY. YOU HAVE DONE A GOOD JOB-NALGONDA CENTRE . TELANGANA STATE.
- Radha Bai: Thanks&congratulations to all the southern centre for hosting an excellent arrangement for BAI Platinum Jubilee valedictory function G BALAJI Chairman Rangareddy center
- Really all bai members should appreciate RK AND HIS TEAM for successfully completed platinum jubilee CONCLUDING CERMANY CERMANY AND I PRAY THE ALL GOD'S THAT WE HAVE CELEBRATE RK S 100TH BIRTHDAY WITH ALL ABOUT 15000 BAI MEMBERS (SNREDDY BUILDERS ASSOCIATION)
- We, BAI KERALA.... takes this opportunity to applaud and congratulate Shri Bishmaji Radhakrishnanji and all members of BAI Southern Centre for the smooth and Successful conduct of the Platinum Jubilee Concluding Ceremony. Congratulations once again . GOD BLESS BAI - John Paul, State Chairman, BAI Kerala
- Thanks to Southern BAI Centre for excellent hospitality in Chennai Stay for Platinum Jubilee Celebration and MC GC meetings. - Sunil Mundada, BAI Dhule, Maharashtra
- Congratulations to southern centre for making closing ceremony of Platinum jubilee a very grand success under the able guidance and leadership of Bhishma Shri Radhakrishnanji. Excellent arrangement from all corners. Taking the warm feelings from the heart of all members of southern centre. - Jagdish Parekh

- Thanks to Southern BAI Centre for excellent hospitality in Chennai Stay for Platinum Jubilee Celebration and MC GC meetings. - Suresh Patil, State Chairman, Maharashtra

- off to Chennai center for excellent arrangements & programme. Well done. Radha Bai: Thanks to Southern BAI Centre for excellent hospitality. Graceful Platinum Jubilee Celebration and MC GC meetings. The inthusiastic participation by all was appriciable. - Vijay Devi, Trustee

- Thanks to Southern BAI Centre for excellent hospitality in Chennai Stay for Platinum Jubilee Celebration and MC GC meetings. - Sunil Kokitkar, X-Chairman sangli CENTER & G.C member, Maharashtra.

- Thanks to Southern BAI Centre for excellent hospitality in Chennai Stay for Platinum Jubilee Celebration and MC GC meetings. - Subrata Das, BAI Eastern (Kolkatta) centre

- Thanks to Southern BAI Centre for excellent hospitality in Chennai Stay for Platinum Jubilee Celebration and MC GC meetings. - Rameshwar Malani ,Nashik, BAI Center, Maharashtra

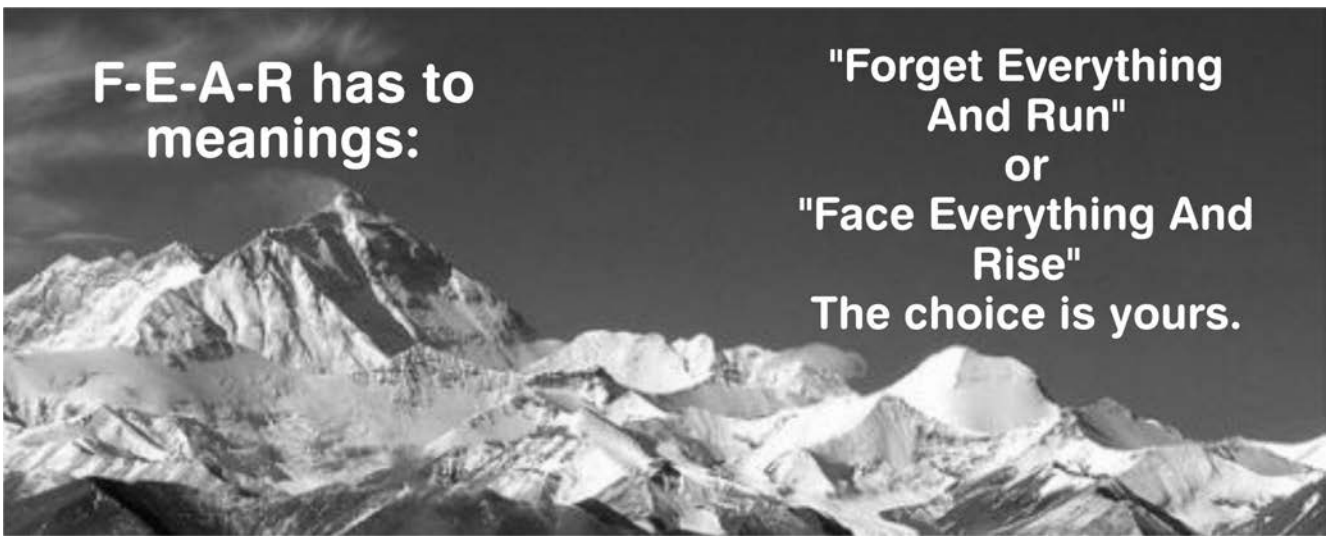
- Thanks to Southern BAI Centre chairman for excellent hospitality in Chennai Stay for Platinum Jubilee Celebration and MC GC meetings. Thanks and sorry shri venkatesh ,chairman for belated thanks as my mobile was lost in welfare gvn by southern centre- Chairman and members ulhasnagar centre

- And very much special thanks to ladies wing for hospitality provided to families Thanks n High regards to Madam Lavaniya Suresh Patil - State Chairman, Maharashtra

- I have asked by Dr. Rajive Krishnani Vice President West Zone & Mr Shyam Chunkhare past Chairman Pune to convey your centre and organization committee their deep appreciation's for programme well organized and conducted with par professional excellence. Well done friends.- Rajive Krishnani, Shyam Chunkhare, Suresh Moorjani

- My hearty best wishes to Sri Venkatesan & his team of Office bearers & Mr. Radha for the the excellent arrangements - V. Ramachandran

- Our best wishes to Southern Centre chairman and his team, Special thanks to Bisma Avl - Er. A. Hari, Chairman, Tuticorin



MEDIA FOCUS

Times of India-31.12.2016

Housing projects in city dropped by half in 2016

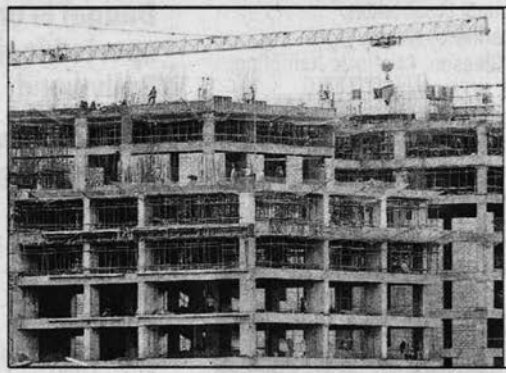
2015 Hangover Affected Real Estate

Yogesh.Kabirdoss
@timesgroup.com

Chennai: Real estate sector, which was sagging ever since the 2012 slowdown, witnessed one of the worst years in 2016 due to multiple reasons such as the hangover of last year's floods, assembly election and demonetisation. This year recorded a drastic 50% drop in the number of new launches in the residential segment, while the floods in December 2015 doomed the real estate market in the southern suburbs, particularly West Tambaram.

"It was one more uneventful year for the city's real estate market. There was no great activity as far as residential sector was concerned," Ajit Chordia, former president of Confederation of Real Estate Developers Association of India (CREDAI) Chennai chapter said. However, the office space market hit the roof breaking new records. "The silver lining has been a record absorption of office space, which would take all the analysts by surprise," he said adding that almost 5.8 million sqft of office space was absorbed this year, which is an all-time high.

WEATHERING STORMS



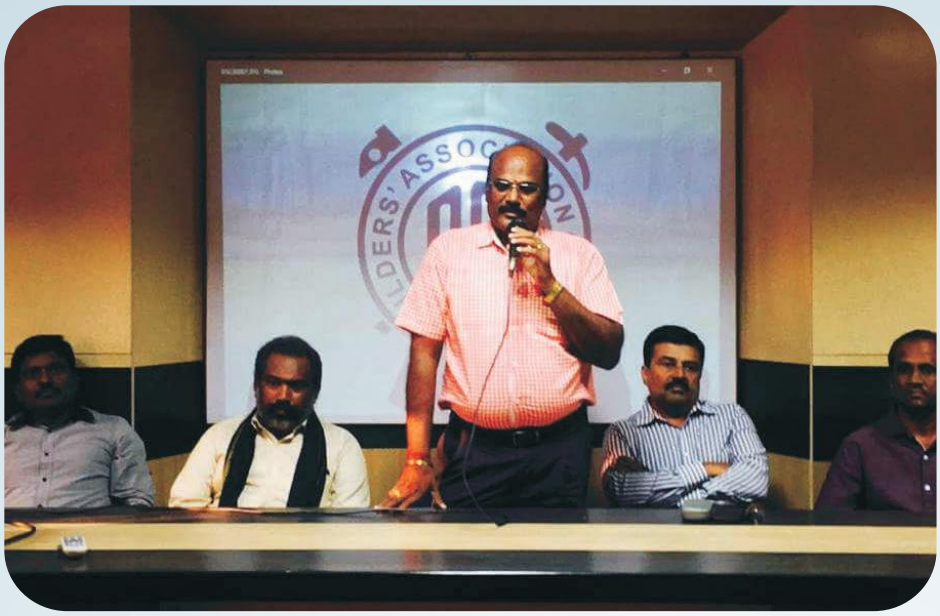
- **Launch of new housing projects drop by 50% due to floods in December 2015,** elections and demonetisation
- **Apartments in flood-hit suburbs suffered** as they witnessed little real estate development in the aftermath of the natural calamity.
- Surprisingly, **absorption of office space in the city made a record of registering an estimated 5.58 million sqft**
- **The Madras high court blanket ban on registration of unapproved plots** is expected to regulate the largely unorganised sector

The ripples of the natural calamity in 2015 made the price-conscious property buyers of Chennai to enquire whether the areas identified for proposed investment are flood prone or not. According to Ramaprabhu, secretary of the Builders' Association of India's southern centre, home buyers are curious to know about the water level recorded in the area during last year floods. "If the new launches in other parts of Chennai dipped by 40 per cent, it was 80 per cent in areas around West Tambaram," he said.

While there was a lull in the real estate market for about two months in the run up to the state assembly elections primarily owing to restrictions in carrying cash, a landmark judgement by the Madras high court in September this year put an end to registration of unapproved plots. A month after the high court's ban, the state registration department reported a fall in revenue to the tune of ₹300 crore.

Against this backdrop came Centre's demonetisation of ₹500 and ₹1,000 denominations in November. It further hit the market. Chennai Real Estates Agents' Association president Chandrasekar Kaliamurthy said the demonetisation drive had impacted about 20 to 25 per cent of sales in the city's real estate sector. However, he stressed that demonetisation would help banks reduce the interest rate on home loans in 2017.

A Shankar, national director of Jones Lang LaSalle, an international realty consultant, said that banks were flush with money after demonetisation. "Banks may also pitch in with funds for layout developers and individual buyers to purchase plots approved by the DTCP and CMDA," he noted.



29.12.2016 அன்று
நடத்தப்பட்ட தொழிலாளர்
பயிற்சி முகாம்.

29.12.2016 அன்று
நடத்தப்பட்ட தொழிலாளர்
பயிற்சி முகாம்.

27/12/2016 அன்று The Southern Construction Research and Development Service Service Society யின் வருடாந்திர மகாசபைக் கூட்டம் நடைபெற்றது. இதில் திரு. K. அண்ணாமைலை தலைவர், திரு. A. கலையரசன் - துணைத்தலைவர், திரு. A. சத்தியநாராயணா செயலாளர், திரு. R. ராஜேந்திரன் - பொருளாளராக தேர்ந்தெடுக்கப்பட்டனர்.

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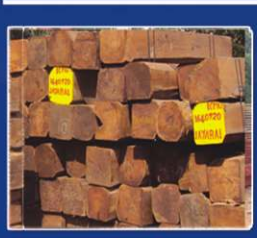





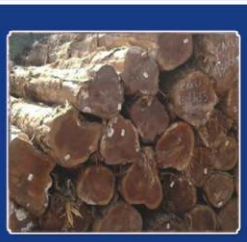


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