

ONE YEAR AFTER  
7.7  $M_w$  SUPER SHEAR-STRIKE  
THE MANDALAY EARTH QUAKE

**Thein Zaw**

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## INWA (AVA) Earthquake

- 1839 march 23, Mw 7.9-8.3
- Fatalities 300-400
- Kong bong Dynasty , Capital move to Amarapura
- Heavy damaged by liquefaction at Mandalay

## BAGO Earthquake (91 yr.after Inwa earthquake)

- 1930 may 15 ,Mw 7
- Fatalities 140, Ruptured 75 miles
- Damaged at Yangon ,Bangkok,Chiangmai
- Threat to Yangon has 31miles seismic gap

## MANDALAY Earthquake (95 yr.after Bago earthquake)

- 2025 march 28,Mw7.7
- Fatalities 3700 ,damaged 50000 homes
- Ruptured 249 miles, super-shear ,boomerang's like
- Within 20 seconds reach epicentre to south
- Effected Sagaing, Mandalay, Naypyitaw, Bangkok



# After super shear strike

**28 March 2025    The Mandalay Earthquake 7.7 Mw Super Shear Strike**

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**29 July 2025    Post Earthquake Technical Forum    Naypyitaw**

**July 2025    Myanmar National Building Code 2025    Provided**

**4 Feb    2026    Construction Industry Development Law    Provided**

# Construction Industry Development law

ဗဟိုကော်မတီ ,သက်ဆိုင်ရာဦးစီးကော်မတီ , ဒေသဆိုင်ရာကော်မတီ , ဦးစီးဌာန

## 1. မှတ်ပုံတင်ခြင်း Registration

Contractor , Consultant & Consultant team , Project Management, Quality Control, Third Party .

## 2. အရည်အသွေး ထောက်ခံချက်လက်မှတ် Quality Certification

Importers, Distributors, Suppliers, Contractors, Developers, Producers

## 3. တည်ဆောက်ခွင့်ပြုခြင်း Building Permit

စတင်အထိ , ဧကန်အထိ , ပြီးဆုံးအထိ အများပြည်သူသုံး

## 4. တားမြစ်ချက်နှင့်ပြစ်ဒဏ် , စည်းကမ်းမလိုက်နာခြင်း

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# ATTENTION AREAS

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## a. Specifications and Detailing

Regulators

Engineers, Technologists, Technicians

## b. Professional Competence

Meng C, Fed MES, MCEF, MLCA,

## c. Skilled Workers Training

National skill standards authority, Regulators, Industry related organisations, Developers, Contractors

## d. Vulnerable Buildings Assessment

Building Control Authorities shall coordinates with Fed MES

## e. Construction Materials Standards and Equivalent

DRI, MSC, Stakeholders in Industry, importers, distributors, contractors, suppliers, producers, developers, Lab technicians; etc

# LESSONS FROM

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## High rise Buildings

- Sky Villa

## Public Buildings

- Ottara thiri hospital

## Religious Buildings

- Monastery
- Mosque

## Type Plan Buildings

- Staff housing
- Fire station
- Schools

# TO PROMOTE FIELDS

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## **Construction Project Management**

- **Project Quality Plan (Q/A).**
- **Procurement, Organisation, Scheduling**
- **MNBC Part 7**

## **Quantity Surveying**

- **Cost**
- **Tendering , Contract agreement**

## **Inspections System awareness**

- **ISO 17020 inspection standard**
- **Contractor First Party Inspection Q/C**
- **CM and Consultants Developed Q/A and Second Party Inspection**
- **Third Party Inspection ; design checking , site inspections  
Compliance; Codes, standards and specifications, rules and regulations**

# REGISTRATION GAPS

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## Laboratory

- Soil Investigation and Soil Laboratory
- Construction Materials Laboratory
- Accreditation System and ISO 17025

## Design Firms

- Should Registration at Meng C

## Qualified Professionals

- Accredited Checker
- High risk Project Manager

# Thank You

Engr Thein Zaw (construction Industry)

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