

Workshop on Architectural Design of Eye Hospital October 4-5, 2017



Technical and Regulatory Nuances Building codes & Accreditation

Dr D Chandrasekhar
Certified Professional for Quality
Implementation in Hospitals
Aravind Eye Hospital
Coimbatore

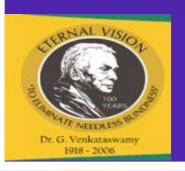






Disclaimer

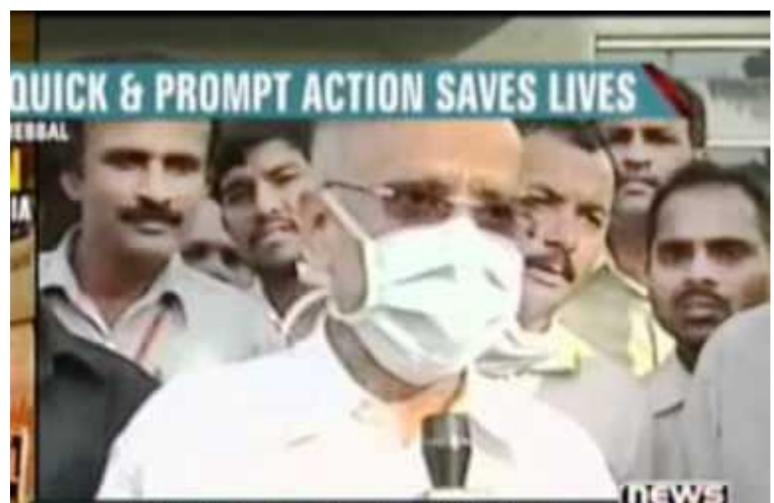
NOTHING AGAINST PEOPLE / INSTITUTION













INSURANCE REGULATORY AND DEVELOPMENT AUTHORITY OF INDIA

INSURANCE REGULATORY AND DEVELOPMENT AUTHORITY OF INDIA NOTIFICATION

Hyderabad, the 12th July, 2016

Insurance Regulatory and Development Authority of India (Health Insurance) Regulations, 2016

"All such providers offering cashless services for allopathic treatment shall meet with the pre-accreditation entry level standards laid down by National Accreditation Board for Hospitals (NABH) or such other standards or requirements as may be specified by the Authority from time to time within a period of two years from the date of notification of these Guidelines. (Explanatory Note: Network Providers are to visit NABH website for details regarding procedure for obtaining the necessary accreditation)"

Ref notification: IRDA/HLT/REG/CIR/146/07/2016 dated NABH @ AEH

Government of Tamil Nadu

Chief Minister's Comprehensive Health Insurance Scheme

Dear Sir/Mam,

Warm greetings from MDIndia Healthcare Services

(TPA) Pvt. Ltd,

Requesting you to Kindly update the NABH Accreditation

processing status of your hospital.

It is instructed that entry level NABH accreditation

certificates one of the mandatory requisite of TNCMCHIS

Do the needful at priority basis

MDI - Sakthi. B,

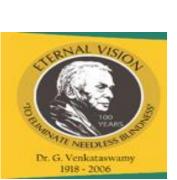
TNCMCHS Project - PM/Empanelment Team

MDIndia Healthcare Services (TPA) Pvt. Ltd.





EYE HOSPITALS



NATIONAL ACCREDITATION BOARD FOR HOSPITALS AND HEALTHCARE PROVIDERS (NABH)





NABH

PRE ACCREDITATION ENTRY LEVEL STANDARDS FOR SMALL HEALTH CARE ORGANIZATIONS

First Edition : April 2014





2nd April 2014



ACCREDITATION

STANDARDS FOR SMALL
HEALTH CARE ORGANIZATIONS



MATIONIAL ACCREDITATION BOARD FOR HOSPITALS AND HEALTHCARE PROVIDERS (NABRO)



LEVEL STANDARDS FOR HOSPITALS





AIOS NABH Committee to Formulate NABH Eye Care Standards



NATIONAL ACCREDITATION BOARD FOR HOSPITALS AND HEALTHCARE PROVIDERS (NABH)

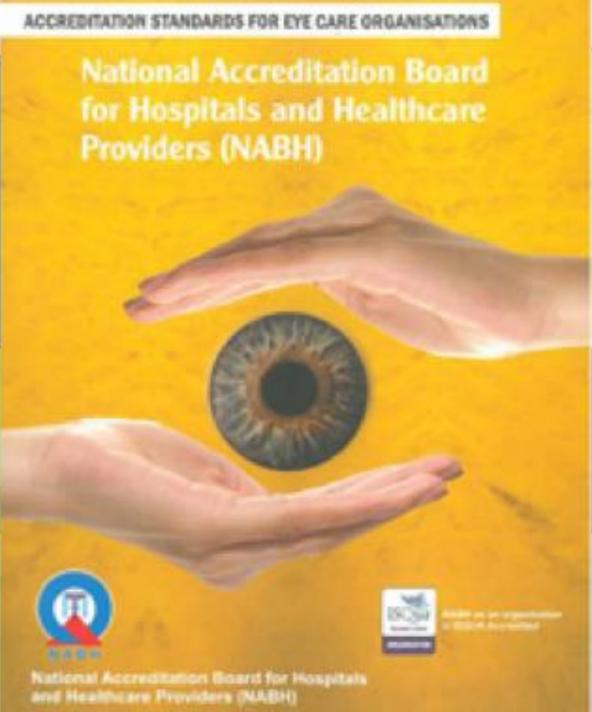




PRE ACCREDITATION ENTRY LEVEL STANDARDS FOR SMALL HEALTH CARE ORGANIZATIONS

First Edition : April 2014









ACCREDITATION

STANDARDS FOR SMALL HEALTH CARE ORGANIZATIONS



NATIONAL ACCREDITATION BOARD FOR HOSPITALS AND HEALTHCARE PROVIDERS (MASH)

PRE ACCREDITATION ENTRY LEVEL STANDARDS FOR HOSPITALS











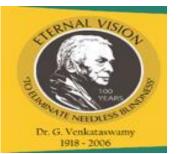




ATOMIC ENERGY REGULATORY BOARD



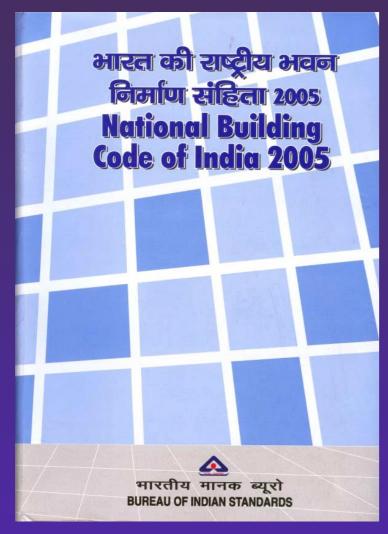




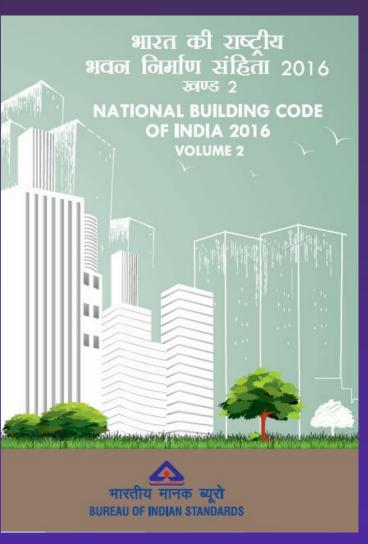
The Clinical Establishments (Registration and Regulation) ACT, 2010



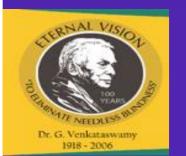
National Building Code



Section 4
Fire Safety Rules



The Clinical Establishments (Registration and Regulation) Act 2010

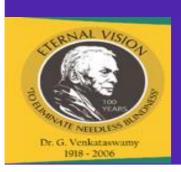


Indian Public Health Standards



National Building Code

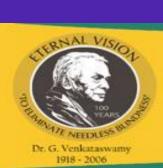
- Group C- Institutional Buildings
- Group C-1 Hospitals & Sanatoria
- Moderate Hazard Occupancies

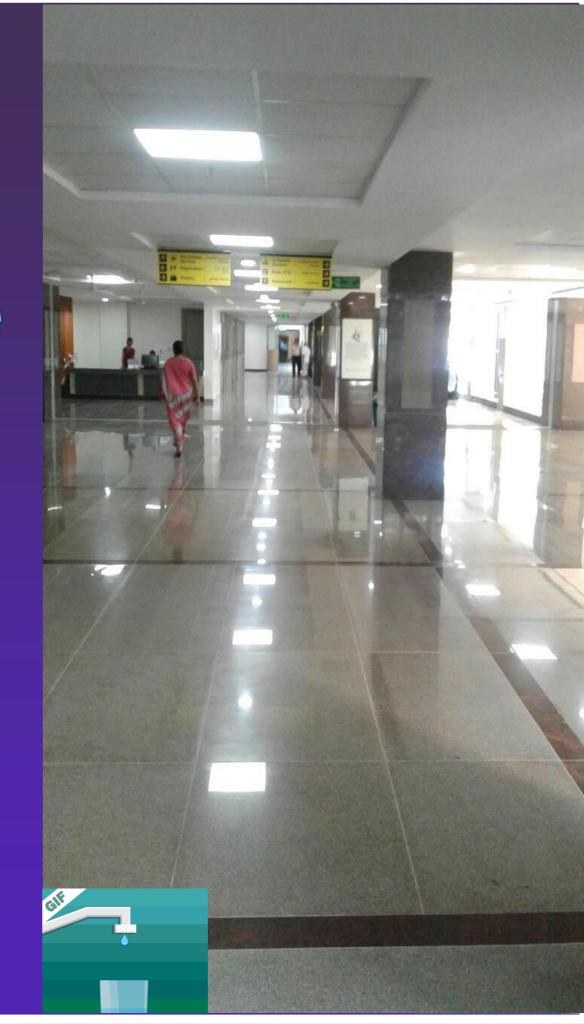




National Building Code

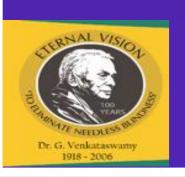
- Adequate Space
- Lighting
- •Ventilation
- Potable Water
- Power Supply





Building Requirements

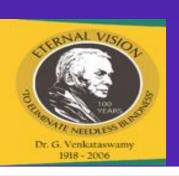
- Land Allotment for Hospital
 Urban Land Act
- Building Permit
- Completion Certificate
- Occupancy Certificate
- Periodic Occupancy Renewal





Statutory

- Land
- Electricity & Water
- Sewage
- PCB & Biomedical Waste
- Fire License
- Lift License











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TAMIL NADU FIRE – RESCUE SERV FIRE SERVICE LICENCE

Under section 13 of the Tamil Nadu Service Act No.40
Tamil Nadu Fire Service Rules 1990- Append

Office of the D Fire - R Coimba

Date:

License No: 503 /2016 K. Dis: 5246/ A1 / 2016

Your Ref. No: Nil . Date :11.05.2016

DATE OF INSPECTION 31.05.2016 INSPECTED BY S. hereby granted section 13 of the Tamil Nadu Fire Service act Hospital, in the Name of M/s. ARAVIND EYE HOSPITAL Coimbatore District at the premises SF. No. 448/458, 459, Avinas Coimbatore District subject to the conditions noted there on and sube prescribed.

CONDITIONS

(As per Col 13 to Appendix 5 to the rules under Section 13 of the A

- 1. This License is valid for one year from the date of issue.
- 2. Height of the building 14.30 Meters.
- 3. Installed the fire fighting Equipments should be maintained



To, M/s

M/s. Aravind Eye Hospital, SF, No.448/458, 459,

Avinashi Road,

Coimbatore-14.

தமிழ்நாடு அரசு மீன் ஆப்வுத்தறை

少100011150

பெறுநர்

மின்ஆப்வானர் மற்றும் மின்துக்கி ஆர்வானர் கோனை (வடக்கு) மாந்தராட்சி வணிக வளாகம் டாக்டர் நஞ்சப்பா சானை கோவை — 641 018.

திரு. அரவிந்த் ஐ ஹாஸ்ப்ட்டல்., சிவீல் ஏறோழராம் அஞ்சல், கோவை-14.

மேரத் எண். 076 /மிஆ / கோவை (வா க்கு) /2017 நாள் **27** .62017

ggillit,

பொருள்: மின்சாரம் - தமிழ்நாடு மின் இயங்கேணிகள் சட்டம் மற்றும் விதிகள் 1997 — மின் தூக்கி உரிமம் புதப்பித்தல் - ரூறித்து

பார்வை: 1. நங்களது விண்ணப்பம் பேரம்பட்ட நாள் 21.3,2017

பார்வை 1-ல் கண்டுள்ள தங்களில் விண்ணப்பத்தின்படி 31.5.2017 அன்று ஆப்வு மேற்கொண்ட மூன்று மின் தாக்கிகளுக்கு கீழ்கண்ட நிருத்தனைகளின் அடிப்படையில் 23.6.2018 முடிய உரியம் புதப்பிக்கப்பட்டு இந்தான் இணைத்து அனுப்பப்படுகிறது.

- (1) மின்தாக்கி உரிமத்தியை மேறும் புதுப்பித்தலுக்கான உரிய படிவத்து ன் (படிவம் G) கூடிய விண்ணப்பத்தியை ஆய்வுக் கட்டனத்திற்கான அசல் செலுத்துச்சீட்டு 'மற்றும் அசல் உரிமத்துடன் 23.3.2018 தேதிக்குன் இவ்வலுவலகத்திற்கு வந்துசேருமாறு அனுப்பி வைக்கப்பட வேண்டும். தாமதமாகப் பெறப்படும் ஓவ்வொரு திங்களுக்கும் - மின் தாக்கி ஒன்றுக்கு, நு.50/-வீதம் தாமதக் கட்டணம் சுருவுலத்தில் செலுத்தி அசல் செலுத்துச் சீட்டுடன் விண்ணப்பிக்கப்பட வேண்டும்.
- (2) மீன் தாக்கியில் பயணிக்கும் அனைவருக்கும் விபத்து காப்பீடு (Public Liability) செய்யப்பட்டு அதன் நகலிலை அனுட்சி வைக்கப்படவேண்டும்.
- (3) வருடாந்திர பராமர்ப்பு ஓப்பந்தம் (AMC) புதுப்பித்து அருள் விபரம் தெரிவிக்கப் படவேண்டும்.

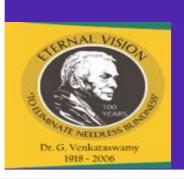
இணைப்பு - உரியம்

மீன் ஆப்வால்! பேர்நிக்கி மின் நாக்கி ஆய்வாளர் கோவை (வடக்கு)





- Exit Door Width 2 mtr
- Double Swing Single / Double
- Ward Doors 1.2 mtr

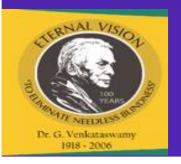




Exit Doors







Exit Doors width 2 mtr



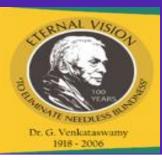






CORRIDOR 2.4 Mtrs

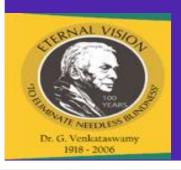






PARAPET WALLS

- Parapet Walls from finished floor level
- *Not Less than 1.0 mtr
- Not More than 1.2 mtr

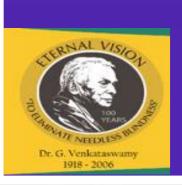






PARAPET WALLS







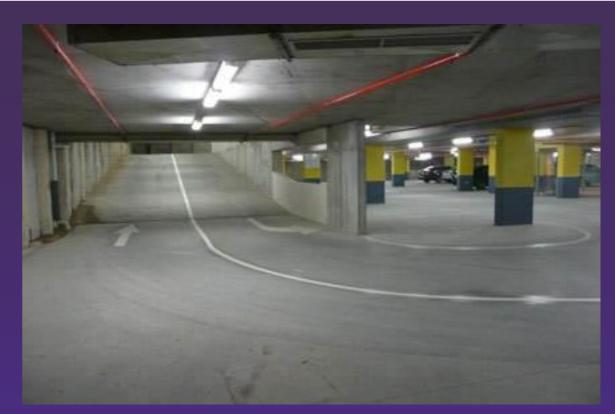
RAMPS 2.4 mtrs





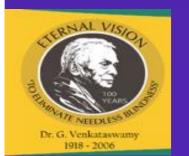






Car Parking Ramps 6 mtrs

Car Parking (a) Basement



Minimum 2 Ramps



Boundary Wall 2.4 mtr













Staircase

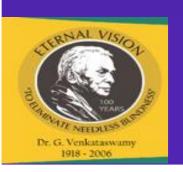
- Non Combustible Material
- No Gas Piping or Electrical Panel
- Minimal Width 2 Mt
- Hand Rails 1000 mm
- Tread 300mm and Riser of 150mm
- Maximum of 12 per flight

Head Room of Landing 2.2 mtrs

Two Staircase



- Above 15 mtrs
- More than 500 sq mtrs





Basement

- Height atleast 2.4 mtrs
- Ceiling above 0.9 mtr and below 1.2 mtr to ground level
- Water tight Walls
- Ventilation / Drainage





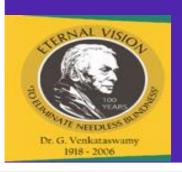
Clinical Establishment Act Standards for Hospital Ovel 1 - Non Surgical

Level 1 - Non Surgical

Level 2 - Surgery GA

Level 3 - Multi Speciality

Level 4 - Teaching

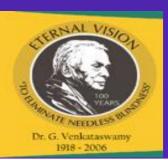




Level 2

- 40 Sq Mtr/Bed as carpet area
- 6 Sq Mtr/Bed surrounding space + 30% area
- 24.5 sq mt per operating







Level 3

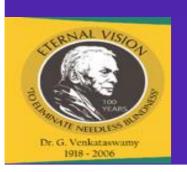
- 50 Sq mtr/bed as carpet area
- 6 Sq mtr/Bed surrounding
 space + 30% Area
- 30.5 sq mtr per operating





Wards

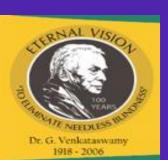
- 1. Areas for nursing station, doctors' duty room, store, toilets etc
- 2. General ward of 12 beds, a minimum of 2 WC and 1 hand wash basin
- 3. Between beds 1.0 metres
- 4. Space at the head end of bed-0.25 mtr
- 5. Door width shall be 1.2 metres





Pharmacy Area

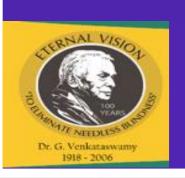
The size should be adequate to contain 5 percent of the total clinical visits to the OPD in one session at the rate of 0.8 m2 per patient.





Fire safety aspects have been distinctly categorized into fire prevention, life safety and fire protection

- Classification of Building
- General Requirements
- Fire Safety Equipment
- Fire Protection
- High Rise Building
- Fire Safety Plan





National Building Code (Part 4) – Fire and Life Safety

- Each Floor Minimum 2 Exits
- Doors to Outside
- Stairways
- Ramps / Fire Lifts
- Refuge Area
- ·Set back area 6 mtr
- Dr. G. Venkutaswumy

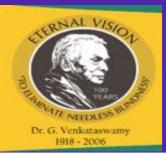




"Requisite mandatory provisions for persons with disabilities."







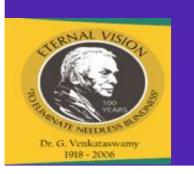


Bio-medical Waste

< 50 beds 5 sq m

50-100 beds 10 sq m

> 100 beds 20 sq m





High Rise Buidings Above 15 mtrs

- 2 Entrances 4.5 mtrs wide
- Setback 6 mtr
- If Parking 12 mtr
- Basement 2 Ramps
- Ramp / Fire Lift
- Sprinkler System









tober MMIT 017 HONOUR OF ENKATASWAMY





ACCREDITATION

- Legal & Statutory Needs
- Near Perfect Safety
- In Disasters Management minimises hazard
- Major need for Accreditation





EYE HOSPITALS

