

**NUCLEUS**

**Engineers and Consultants**

**Who are** Nucleus

# Engineers & Consultants (NEC)?

The Nucleus Engineers and Consultants (NEC) is a leading company in the Fire Protection industry started from 2017. Knowing that their assets are being maintained by some of Fire Protection industry's best experts, our clients are left with a peace of mind.



NEC serves a Diverse Range of Customers from different sectors such as Business, Mercantile, Storage, Educational, Institutional High-rise Residential Complexes, Hazardous and Heavy Industry. At NEC, we stay up-to-date with any Legislative Changes that can affect our Clients. We constantly monitor the National Building Code of India and National Fire Protection Association Indian Standards to make sure that all the rules and regulations are followed and everything that is done is safe.



# MISSION & VISION

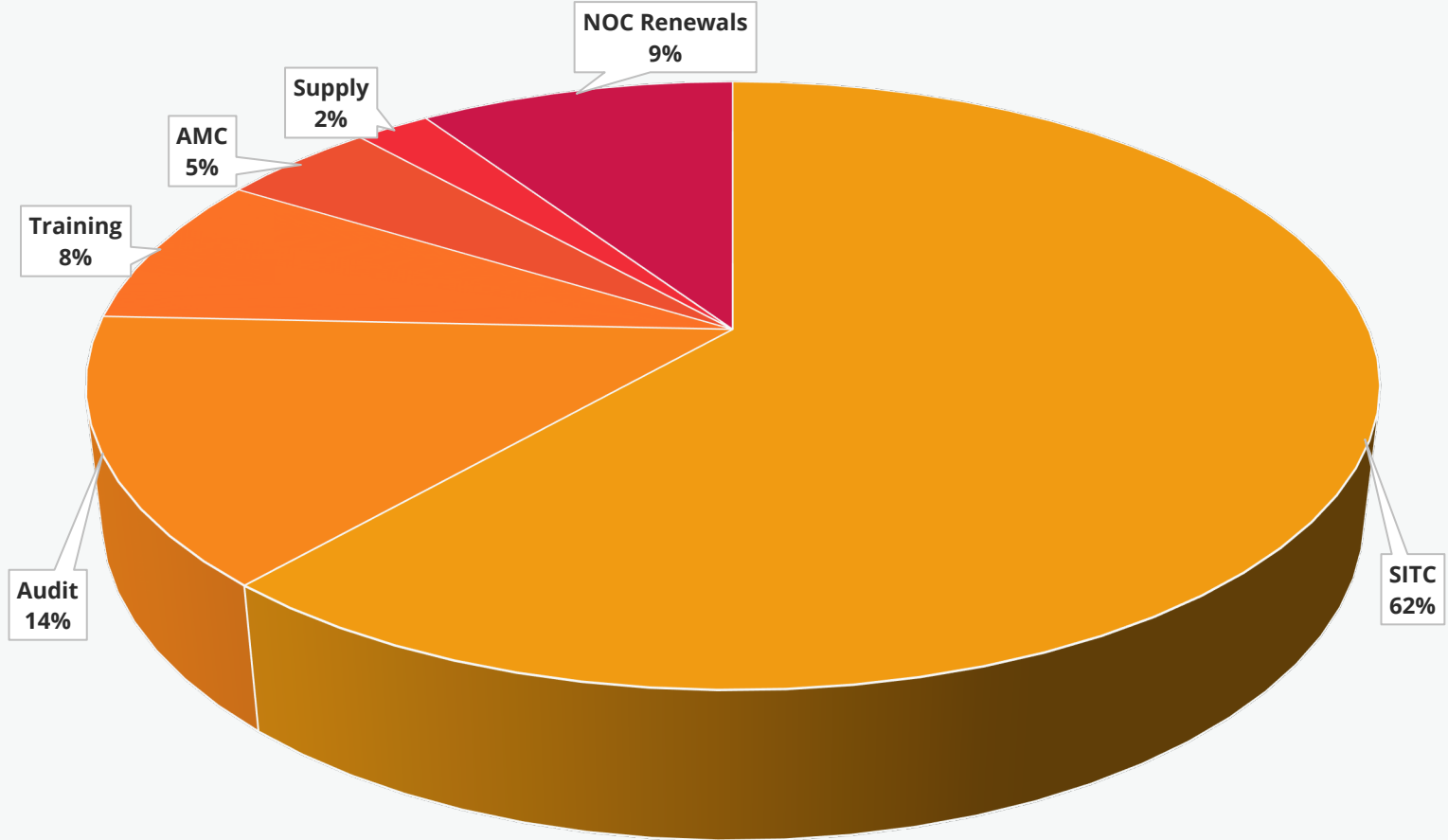
NEC constantly strives to become one of the most preferred Fire Fighting Solution Providers to deliver timely and quality projects for its “Business Partners”. We enhance its presence by acquiring the market share in the Fire Fighting industry/business in the country. NEC ensures that every business it indulges with, will contribute in building the awareness on Fire Protection among people and nurture them with adequate knowledge of fire safety.



The Corporate vision of NEC is to make Fire Safety and Fire Protection as a living standard of the people, through our business, which ensures a safe society, where unexpected deaths are prevented from fire. Our vision is to be a trusted leader in fire safety through the development of technical staff excellence, establishing a high level of ethical practice and working with our clients to meet their safety objectives.



### Projects Completed till date



■ SITC ■ Audit ■ Training ■ AMC ■ Supply ■ NOC Renewals



# OUR TEAM

## **Mr. Shashin Kayastha (B.Sc Fire & Safety)**

Technical skills: Fire Protection system –Project work, Audit & Training (11yr Experience)

Certification: Fire Safety Officer (FSO-Specialist) & CFPS – NFPA (Certified Fire Protection Specialist)

## **Mr. Milind Barwade (B.Tech IT)**

Technical Skills – Reviewing and Designing of Fire protection system(5Yr Experience).

Certification: Autocad Essentials, Disaster Risk Management

## **Ms. Meha Sati (B.Tech IT, M.Tech Health, Safety & Environment)**

Experience: Safety Trainings, EHS Documentation as per guidelines, Improvement in Industrial Safety Culture (11yrs Experience)

Certifications: ISO 45001 LA, IOSH MS, First-aider

## **Mr. Amit Chavda (ITI fire technician)**

Technical skills: Maintenance, Revamping of system, Basic Firefighting and Rescue Training (18Yrs of Experience)

Leads in: Material procurement, Maintenance, Fire NOC liaising.

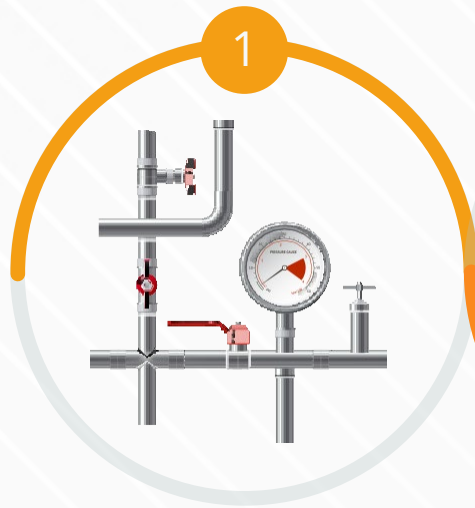
# THE EXPERTS

- ✓ Our technicians and staff are among the finest in the industry. We entrust them with your fire protection needs. Our low employee turnover ensures that your property is in knowledgeable hands.
- ✓ Field Technicians /Field Specialists are competent in their respective fields. We believe in Teamwork and the limitless possibilities of collaborative energy. We achieve excellence by putting Collective Goals ahead of personal interests.
- ✓ Engineering Technicians (Designers) are certified in Sprinkler System Layout, Fire Alarm Design and Special Hazards Design.



# OUR SERVICES

New Installations



Maintenance



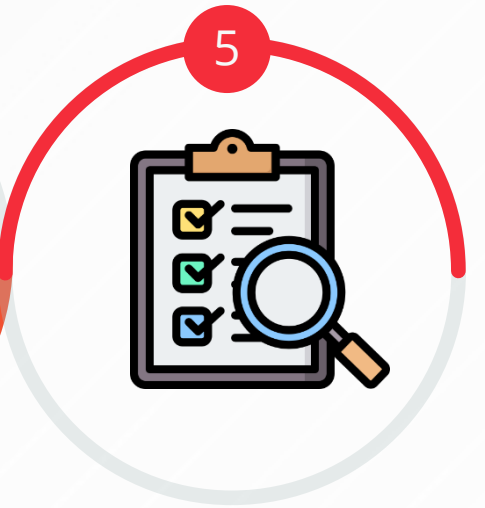
Fire Safety Audit



Safety Training



FSO



# INTRODUCTION OF NUCLEUS ENGINEERS AND CONSULTANTS

**We M/s Nucleus Engineers and Consultants are in the business of Fire, Safety and Engineering, having following verticals**

- Fire Protection System Designing & Pressure Drop Calculation
- Installation of Fire Protection System
  - Fire Suppression system
  - Fire hydrant system
  - Fire alarm system
- Fire Protection System Maintenance
- Fire Safety Audit (Gap Analysis; Fire Load calculation; Emergency Response Training)
- Safety Trainings
- Helping hand in developing safety culture
- Formation of DMP (Disaster Management Plan) document
- Also we have FSO (Fire Safety Officer-Specialist, trained from State Govt.) who is competent for renewal of Fire Safety Certificate.



# OUR **SETUPS**

## Water-Based

Wet Riser System



Spray System



Sprinkler System

Foam System

Yard Hydrant Installations

## Gas-Based



CO<sub>2</sub> Flooding/Tubing System



Novec 1230 Flooding System



FM 200 Clean Agent System

# MAINTENANCE (FIRE PROTECTION EQUIPMENT)



Fire Hydrant Systems



Automatic Fire Sprinkler Systems



Fire Pump Systems



Fire Extinguishers



Fire Suppression System



# FIRE SAFETY AUDIT

(Conducted by Qualified and Competent NEC's Staff members;  
Includes an Inspection of the Work site in relation to)

- Review of the various Active (Such as Fire Hydrant, Sprinkler, Portable Fire Extinguishers) and Passive Fire Protection. Requirements for Chemical Storage and Handling Areas and to suggest Improvements as necessary.
- Identification & Control of Ignition Sources in Areas where Flammable Chemicals are Stored / Handled / Transferred.
- Review of Electrical Hazard which are Potential Causes of Fire.
- Review of Fire Detection Measures adopted & to suggest Suitable Improvement Measures.
- Review of Fire Alarm System and Emergency Fire System of Plant.



# TRAINING



- 1) First Aid & CPR
- 2) Road Safety Awareness/ Defensive Driving
- 3) Basic & Advanced fire fighting
- 4) Emergency Action & fire prevention plans
- 5) Personal Protective Equipment Usage & types
- 6) HIRA ( Hazard Identification & Risk Assessment )
- 7) Confined Space
- 8) Permit to Work
- 9) Electrical Safety and LOTO
- 10) Safety at Work at Height
- 11) Material Handling
- 12) Scaffolding safety
- 13) Use of lifting machines and lifting tackles
- 14) Ship trip, fall prevention
- 15) Ergonomic Hazards, including proper lifting techniques & working on ladders or in a stooped posture for prolonged periods at one time



# FSO DUTIES

- FSO plays major role for approval of new fire NOC, also known as Fire Safety Certificate Approval (FSCA); renewing the same known as Fire Safety Certificate Renewal (FSCR); & approval of Fire Safety Plan (FSPA)
- Issue Fire Safety Certificate Renewal (FSCR) upon compliance of all the mandatory requirements
- Give bi-annual declaration that fire prevention, life safety and fire protection measures provided in the building or premises are operational, in place and in efficient working condition
- Carry out bi-annual emergency mock drills and maintain record of the same. During the mock drill, provide basic information to occupiers and other security/maintenance staff with respect to basic fire prevention, fire-fighting and related aspects.



# PROJECTS

Sr. No.	Client Name	Type	Location	Work
1	Jagannath Mandir	Assembly buildings	Jamalpur, Ahmedabad	SITC job of fire protection system
2	Sindhu Bhavan	Assembly buildings	SBR Ahmedabad	SITC job of fire protection system
3	Crest Data Systems	Business Building	Ahmedabad	AMC of fire fighting system
4	Tax Technologies India Pvt Ltd	Business Building	Gandhinagar	SITC job of fire protection system
5	Paragraph Business Park	Business Building	SG Highway, Ahmedabad	Upgradation of fire fighting system
6	Café Baraco	Commercial	Memnagar Ahmedabad	Auditing and Extinguisher Installation
7	Café Tript	Commercial	Gandhinagar	Auditing and Extinguisher Installation
8	South Street by Sun Developers	Commercial	Bopal, Ahmedabad	SITC job of fire protection system
9	Shivarth The Ace	Commercial	Sindhu Bhavan, Ahmedabad	AMC of fire fighting system
10	Sheth Corporate Towers	Commercial	Ellisbridge, Ahmedabad	AMC of fire fighting system
11	Satya Mall	Commercial	Kalol, Ahmedabad	SITC job of fire protection system
12	Plasma 95	Commercial	Gandhinagar	SITC job of fire protection system
13	Nakshatra	Commercial	Gandhinagar	Designing & consultancy for fire protection system
14	SATYA BUSINESS HUB	Commercial	MANINAGAR	SITC job of fire protection system
15	Hiramanek School	Educational	Odhav, Ahmedabad	SITC job of Fire Protection System

# PROJECTS

16	Girivar Glean	Industry/Commercial	Odhav, Ahmedabad	SITC job of Fire Protection System
17	Infocus Diagnostic	Medical Centre	Navrangpura, Ahmedabad	Auditing and Extinguisher Installation
18	Celebration Heights	Residential	Ankleshwar	SITC job of fire protection system
19	Sanskruti	Residential	Gandhinagar	Designing & consultancy for fire protection system
20	Bouganvillae	Residential	Gandhinagar	Designing & consultancy for fire protection system
21	Shrushti	Residential	Gandhinagar	Designing & consultancy for fire protection system
22	Pravesh	Residential	Gandhinagar	Designing & consultancy for fire protection system
23	Domain Heights	Residential	Shymal, Ahmedabad	AMC of fire fighting system
24	Saral Eltezza	Residential/Commercial	Motera, Ahmedabad	SITC job of Fire Protection System
25	Shree Rang Pearl	Residential/Commercial	Gandhinagar	SITC job of Fire Protection System
26	Stanza & Uniza by Rajyash Group	Residential/Commercial	Bopal/Bodakdev (Ahmedabad)	SITC job of fire protection system
27	German Greenfield	Residential/Commercial	Bhat, Gandhinagar	SITC job of fire protection system
28	Antriksh	Residential/Commercial	Gandhinagar	SITC job of fire protection system

# INDUSTRIAL PROJECTS

Sr. No.	Industry Name	Location	Work
1	Jemond Rubbers	Vatva, Ahmedabad	Auditing and Extinguisher Installation
2	Nilin Industries	Vatva, Ahmedabad	Auditing and Extinguisher Installation
3	BLA Packaging	Bavla, Ahmedabad	SITC job of fire protection system
4	Coca Cola	Sanand, Ahmedabad	Emergency Response Training
5	Gujarat Maritime Board	Navlakhi Port, Gandhidham	Installation of Fire Protection/ Dust Suppression System
6	Anupam Creation	Vatva, Ahmedabad	SITC job of fire protection system
7	JAY Chemicals	Odhav, Ahmedabad	SITC job of fire protection system
8	Oilex	Gandhinagar	HSEF Support for Statutory Compliance
9	Supreme Non Woven	Vapi, Valsad	Emergency Response Training
10	Adani Wilmer Ltd	Navrangpura, Ahmedabad	SITC job of fire protection system
11	Bhavani Industries India LLP	Sanad, Ahmedabad	SITC job of fire protection system; Audit & fire training
12	Vibfast Pigments Pvt Ltd	Vatva, Ahmedabad	SITC job of fire protection system
13	Prakash Textile Pvt Ltd	Naroda, Ahmedabad	SITC job of fire protection system- CO2 tubing system

# INDUSTRIAL PROJECTS

14	Grundfos Pumps India Pvt Ltd	Dantali, Ahmedabad	AMC of fire fighting system; upgradation of fire fighting system
15	Acme Solution Pvt Ltd	Bikaner	SITC job of fire protection system
16	Pioma Industries Pvt Ltd	Kalol,Ahmedaad	Fire Audit & GAP analysis
17	Hem Paints Pvt Ltd	Wankaner Morbi	SITC job of fire protection system
18	Vedanta Ltd	Surat	SITC job of fire protection system
19	Oswal Ltd	Barmer	Fire safety training
20	GRP Ltd	Ankleshwar/ Panoli	Fire Audit & GAP analysis
21	Rane NSK	Changodar, Ahmedabad	AMC of fire fighting system
22	Xpede Tech Research Pvt Ltd	Navagam, Ahmedabad	SITC job of fire protection system
23	Britannia	Jagadia, Bharuch	SITC job of fire protection system

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adani  
wilmar

For a healthy growing nation



VIBFAST



KAAVYARATNA  
GROUP



BUILDING - COMMUNITIES



RAJYASH  
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BHAVANI



DECATHLON



3 AND 4 BHK PALATIAL SKY VILLAS





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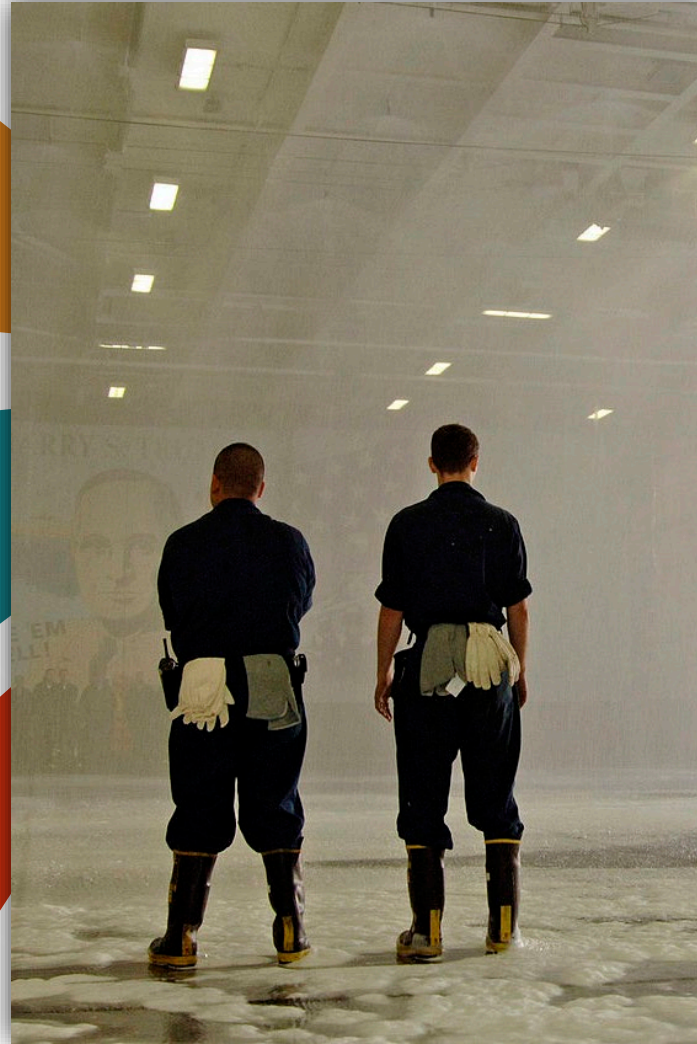


# DID YOU KNOW?

Where is a fire system compulsory? In all the buildings with height 18 meters and above.

What is the refilling time for ABC extinguishers? Once in three years

Can submersible pump be used in fire-fighting system? As per law, submersible pumps are not allowed. Only Mono Block.

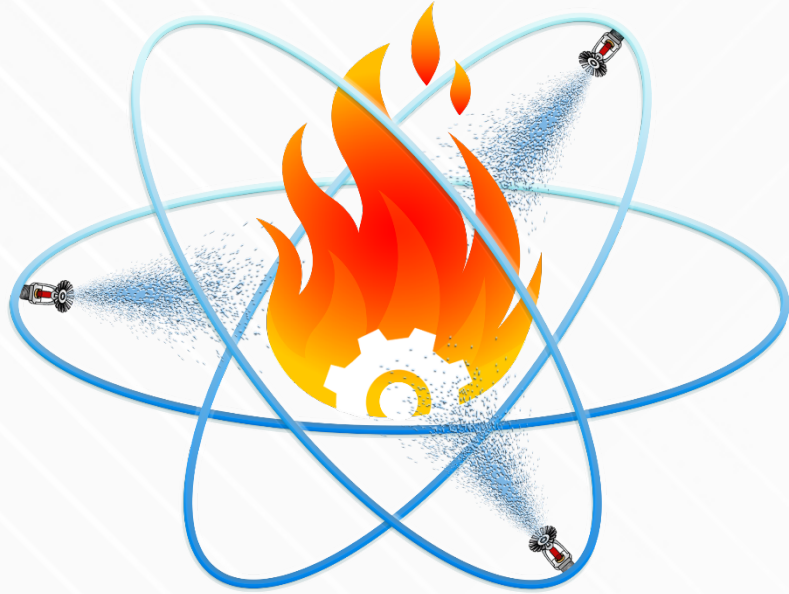


Do all the Sprinklers work at one time in case of fire? No, only in those areas where there is fire.

Alarm systems should be used only in case of fire. No. For any emergency like theft, medical emergency or fire, alarm system can be used.

Simple steps of maintaining Fire system: Drain the water in the system at least once a month and refill with fresh water.

# CONTACT DETAILS



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Engineers and Consultants

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