SNIOE

Environment Health Safety Management System

2

9

310

0

 $\odot$ 

# Index



- Key Benefits
- Green Initiative & Sustainable Solutions (Implemented)
- Implementation Journey
- Carbon Footprint & Sequestration Summary
- Safety & Security Overview [Wellness, Transport & Security]

#### Infrastructure Overview [Engineering, Soft Service & Built-up Area]:



## EHS (Environmental Health & Safety)

 It is a system that studies and implements the practical aspects of protecting the Environment and maintaining Health and Safety at occupation.

•• Regulatory requirements play an important role and EHS Management must identify and understand relevant EHS regulations, the implications so that organizations can implement suitable measures.

"Under the guidelines of ISO 14001:2015 & ISO 45001:2018, Integrated Environment, Health & Safety Management System embracing all Academic, Research, Extra curriculum & Support facilities including Residential facilities and services at SNIoE has been established and accreditation granted in January 2019"



Management System

01 EHS Policy, Strategic Objective

02 Planning & Documentation

**03** Training & Manpower Development

**04** Incident Investigation, Risk & Gap Analysis

05

**08** 

Procedure Implementation & Monitoring

06 Compliance , Documentation, ERP & BCP

07 Periodical Audit & Management Review

Leadership & Commitment



# **EHS** Policy

## SHIV NADAR

#### Environment, Health and Safety Policy

Shiv Noder Institution of Eminence Decimed to be University (SNDE) is committed to maintaining, and wherever possible, improving the quality of [b: environment, both for the people who live and work in the University and for the wider community. **The Environment, Health and Sofety (DHS) Pakey** of SNDE2 socks to make the most effective and efficient use of all University resources, to minimize any adverse environmental impact, to comply with relevant legislations, and it enproach to their work and lifestyle.

SNICE recognizes people as its most important eased, and is committed to providing a safe and healthy working conditions for these studying, teaching, conducting reasondy, working and visiting the SNICE computa.

#### Scope

The Environment, Health and Safety Policy applies at each stage of development, of acodemics and extraourricular activities as well as services, from research through to full-scale operation, in all its domains. It applies to every stage in the life cycle of the process and services i.e. a codic-to-grove assessment.

#### Implementation

- A. In implementing the Environment, Health and Safety Policy, SNOCE will
- Use standards of Environment, Health and Safety, deploy resources, review propessional controls, to eliminate heards and reduce odverse import to consystem and biodiversity.
- Work in cooperation with members of the fraternity, government agencies, relevant environmental bodies, suppliers, service providers and interested perficis to promote high standards in environmental care, continual improvement in performance of services and operations.
- Ensure that all applicable legal & other compliance obligations ges withing.
- Promote responsibly and disseminate information on EHS performance periodically.

#### 5N0CE undertakes

- To appoint and empower a member of SNODE to oversee all environmental matters and to manage relevant communication both internally and externally.
- To enalyze the University's environmental feetprint and initiate changes as necessary to improve the University's environmental performance.
- To comply with all local and national environmental laws and regulations.
- To adopt the best precises in accordance with guidelines produced by SNIDE or an appropriate body.
- To encourage consultation and periodpation of employees, students and representatives towards enhancement and emerceess of the EHS management system.

DOD NO. ROTATION

RADD Restroneerd, Health & Ballely Pulsy 1

SHIV NADAR

- To undergo periodic audits and review to proactively/determine the strength of the established processes and system and encourage bringing in best practices and technology for efficient use of resources.
- C. The Policy is to <u>be implemented</u> at the operating level. The overall responsibility for implementation and maintaining standards of the Environment, Health and Sofety Policy rests with the Head of Administration and further designated Nanogement Representative (NR). S/He will
- Take stops in protocong the environment through continuous improvement in the environment impact of SNIDE operations.
- Meet or exceed the requirement of legislation.
- Increase environmental awareness by appropriate training of user groups.
- Ensure that in the implementation of the Policy, SMDE is able to call upon expertise available from suitable specialists within or outside the University compus.

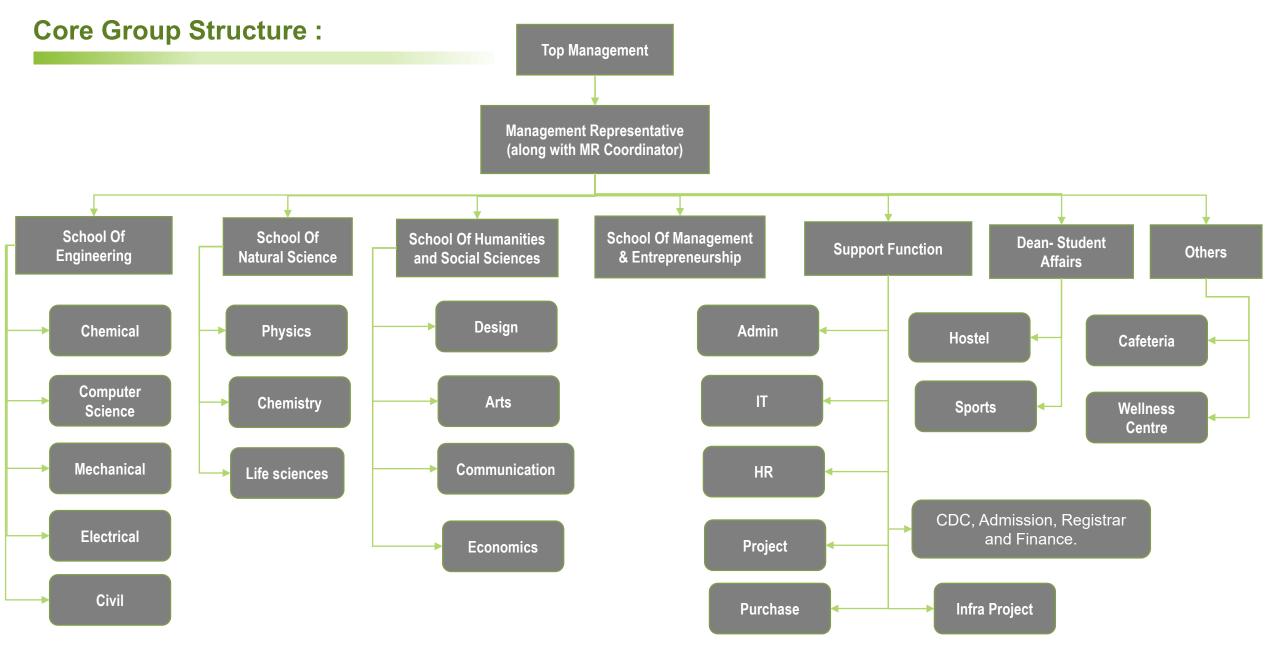
All individuals at SNOCE have responsibility for the implementation of the Policy in areas of their control. They are to ensure that the activities conducted are as per appropriate procedures, aligned with the objectives of the SNICE Environment, Health and Safety Policy.

Decument No.: 5N/06/POL/6H5/001 Ver. No.: 1.2 Elizity Date: 2.9 2022

#### **Dr Ananya Multherjee** Vice Chancellar

#### SHIV NADAR

-UNIVERSITY



There are more than 150 Labs taking part in EHSMS

## Key EHS Risk :



Ø

Physical

Hazard

#### Law & Regulations :

Health and safety teams are closely monitored, this is predominantly due to the nature of the job. This is especially true regarding the different laws and regulations that these teams must be aware of and adhere to in order to keep employees & students safe and compliant.

#### **Occupational Hazards :**

Professional team is responsible for identifying potential safety hazards and conducting regular workplace inspections to help prevent incidents and injuries.



#### **Natural Disasters :**

Typically more concerned with risks that are a result of the actions of people, health and safety teams should be aware of unpredictable This includes, but is not limited to, earthquakes, hurricanes, floods, fires, and even explosions.

#### **Employee Health & Wellness :**



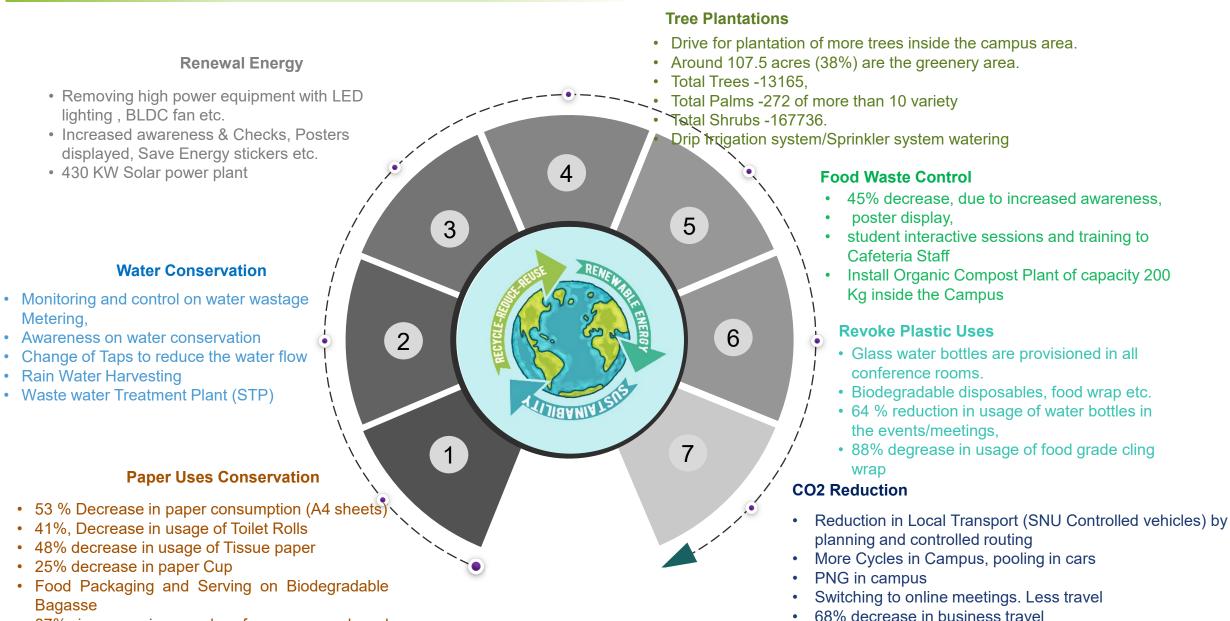
A health condition or disorder that is caused by your work environment or activities related to your work." This may include biological bacteria, exposure to chemicals, ergonomic issues, extreme temperatures or noises, and even psychosocial hazards like stress, harassment, and lack of recognition.

### **Environmental Impact :**

One simple way to minimize environmental damage is to adopt the use of low carbon technologies and other clean-tech initiatives.



### **Green Initiative & Sustainable Solutions – Risk Mitigation :**



 87% increase in recycle of paper, wood and plastic waste

• Going in E-cart, Golf cart, Loader cart within the campus

### Safety & Security Overview [Wellness, Transport & Security]:

#### **Health & Wellness**



- Health and Fitness activities are organized through out the year
- Fully equipped Sports Centre
- Holistic approach through Yoga, Meditation sessions and small Capsule courses.
- Students Insurance.
- Campus Infirmary–Wellness Centre.
- Resident Physicians, Dentist, Physiotherapist, Councilors, Nursing Staff.
- Infirmary is equipped to provide pre-hospital Management.
- Two Ambulance available at the campus all the time.
- Campus Pharmacy
- Nearby multispecialty hospitals like Jaypee Hospital, Kailash, Yatharth etc.
- Student's Insurance

## Physical Security

• Dynamic deployment of Physical Security. Risk-Gap assessment.

- Training to handle immediate fire and medical emergencies
- Training on behavioural aspect to handle visitor's facilitation and management.
- Rotation of guards to various posts. Regular Patrolling at perimeter.
- Access Control- Biometric, RFID
- Work permit process
- CCTV Surveillance
- All entry/exit of material is through security stamping.
- Transport escort guards and Pilot Vehicles as per assessment.
- Parking management for visitors.
- Guards' posts are equipped with telephones and walky-talky.
- Emergency evacuation and fire fighting training

#### House Keeping

- MSDS for Housekeeping and Pest Control Chemicals
- Food Safety FSSAI Compliances
- Detailed check list hygiene and food preparation.
- Sample Food preservation
- Training for Skill enhancement, safety and behavioral aspects.
- Student Food Council
- Deep Cleaning & Sanitization
- Pest Control Management, indoors and outdoors
- Overhead Tank cleaning , UV Treatment
- Water Testing at 67 points.
- Availability of First Aid Boxes
- Waste management
- PPE and compliance
- Advisory and information for wellbeing and safe guard



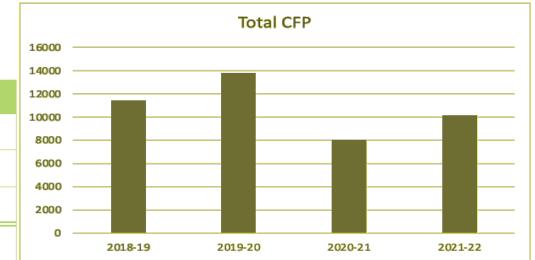
## Ð

- Authorized vendors. Drivers possessing valid Driving License, police verified.
- Vehicles are checked for their fitness
- After 8PM, escort guards to all female employees.
- Escort vehicles from Pari Chowk for any VIP / Guests.
- Vehicles to follow Eastern
  Periphery Road only
- Drivers are given regular briefing on driving skills/ behavioral aspects.
- All vehicles are fitted with GPS
- Passengers Do's and Don'ts
- No passenger can be taken enroute unless it is planned and mentioned in the trip sheet.

Comparing the cumulative value of the Carbon Foot-print for all Scope 1, 2, & 3 together, there is a **30% reduction in the cumulative CFP as compared to the base year 2019-20.** 

GHG Emissions	Scope 1	Scope 2	Scope 3
MT CO <sub>2</sub> e (2018-19)	743	9668.4	1,029
MT CO <sub>2</sub> e (2019-20)	738	10,649	2,427
MT CO <sub>2</sub> e (2020-21)	497	6277	1292
MT CO <sub>2</sub> e (2021-22)	1219	7168	1753

Annual Carbon sequestration Value (Year: 2021-2022)					
S. No.	Category	Total quantity of trees / shrubs / area considered respectively	Value (MTCO <sub>2</sub> e)		
1.	Annual Carbon equivalent sequestered in metric tonnes (Trees)	17,281	442.61		
2.	Annual Carbon equivalent sequestered in metric tonnes (Shrubs)	1,10,704	509.6		
3.	Total carbon equivalent sequestered by soil under different grass species in metric tonnes*	33.944 ha	502.26		
4.	Total		1,454.47		



- Carbon sequestration implies the transfer of atmospheric CO2 into other long-lived global pools including oceanic, biotic and geological strata to reduce the net rate of increase in atmospheric CO2.
- 17% of carbon footprint is footprint is compensated by the sequestered carbon due to the plantation & green coverage of Campus.



## Key Benefits :

#### **Compliance & Best Practices**

- MSDS for Chemicals, ETP
- Food Safety FSSAI Compliances
- Labour Compliances for PF, ESI, POSH, Min Wages compliances.
- CTO, EC from Pollution Control Board
- Fire NOC and Fire safety best practices,
- Ground Water Testing and NOC
- Lift Compliances
- Indoor Air Quality Test
- Lux Level checks
- Noise Level Test
- Water testing
- Water storage tank cleaning
- Waste disposal, E Waste Record
- Biomedical Wastes compliance
- Safety through PPEs
- Implement LOTO for M&E activities
- Regular Deep Cleaning by steam Jet
- Hazardous Waste Management compliance
- IGBC accreditation
- Carbon Foot Printing
- Carbon Sequestration
- Occupational Safety measures.

#### Statutory and Regulatory Compliance

- Prepared for emergencies , like :
- Fire Emergencies
- Earthquake

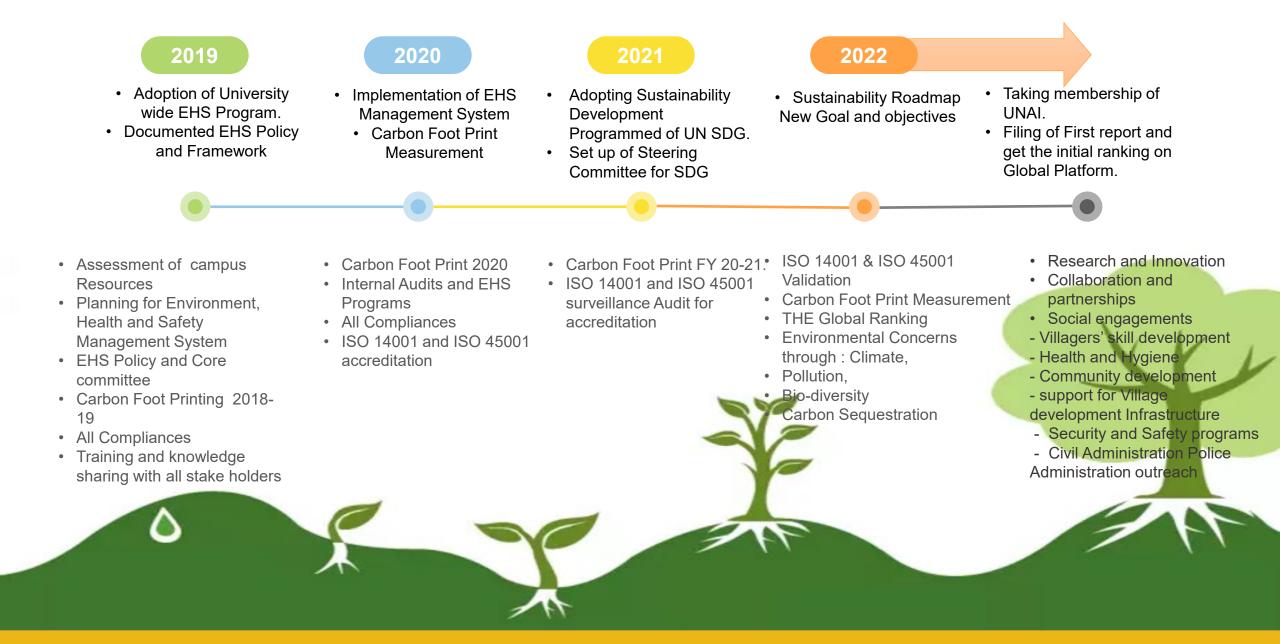
 $\geq$ 

- Epidemic ( COVID-19,BCP) etc.
  - Standardisation of Processes/ Record Keeping/ Monitoring & Control
- Continual improvement
- Carbon Footprint Sequestration.
- THE World Impact Ranking. Participation in UNAI - SDG

### Efficient use of resources. Like :

# Energy Conservation # Water conservation # Paper Saving# Food wastage reduction # Health and hygiene# Occupational Safety # Recycle

### Implementation Journey:







# THANK YOU