

## K.L.N. College of Engineering, Pottapalayam, Sivagangai 630612.

### “Programs and Initiatives Supporting SDG Implementation”

11<sup>th</sup> National Conclave on 5S

14 June 2025 (Saturday)

Report on the Program



11<sup>th</sup> National Conclave on 5S was organized by Quality Circle Forum of India in association with Quality Circle Forum of India, Madurai Chapter and K.L.N. College of Engineering on 14<sup>th</sup> June 2025 @ K.L.N. College of Engineering, Madurai.

Mr. Datta Kuvalekar, Chief Operations Officer of Forbes Marshall, Pune, and Mr. V. Ganapathy Subramanian, Associate Vice President and Unit Head of TAFE, Madurai were the Guests of Honour. Er. K. S. D. Sivaprasad, Treasurer of KLNCE, and Dr. A. V. Ram prasad, Principal graced the occasion as special guests.

The event was graced by Mr. D. K. Srivatsava, QCFI Executive Director, Mrs. Yogeshwari, Director QCFI, Mr. Sankarasubramanian, Chairman of QCFI Madurai Chapter, and Mr. Rituraj Mehta, Group Head – Safety, Adani Enterprises Ltd., Officials from QCFI Headquarters, Mr. P. Sugumaran, Dr. R. M. Satheesh Kumar, and Mr. N. Thevaraajhah from QCFI Madurai Chapter along with other dignitaries, distinguished guests, and delegates from various industries were also present at the function. Dr. R. M. Satheesh Kumar was the convener of the program @ KLNCE.

125 teams, 500 participants from various sectors of industries across India participated in the conclave and presented the case studies in the forenoon session. Awards for the presenters were distributed during the valedictory and award ceremony function held in the evening.

Faculty and technical staff of KLNCE participated as observers of the event and enhanced their knowledge on the practical implementation of 5S methodology and how it supports Sustainable Development Goals. A brief about 5S methodology is given below.

The **5S methodology**—originating from Japanese manufacturing practices—is a workplace organization system consisting of five steps: **Sort, Set in Order, Shine, Standardize, and Sustain**. While it is often applied in industrial or office settings, it also significantly supports **Sustainable Development Goals (SDGs)** by promoting efficient, clean, and mindful work environments. "The alignment of 5S with specific Sustainable Development Goals (SDGs) is outlined below."

## 1. ORGANIZATION / REORGANIZATION (Seiri)

**Meaning:** Eliminate unnecessary items from the workplace.

✓**Impact on SDGs:**

- **SDG 12 – Responsible Consumption and Production:** Reduces waste by minimizing unused materials and tools.
- **SDG 13 – Climate Action:** Eliminating clutter reduces energy use and material storage needs, indirectly cutting carbon footprints.

## 2. NEATNESS - SET IN ORDER (Seiton)

**Meaning:** Organize items for easy access and efficient workflow.

✓**Impact on SDGs:**

- **SDG 9 – Industry, Innovation, and Infrastructure:** Enhances productivity through process efficiency and optimized layouts.
- **SDG 8 – Decent Work and Economic Growth:** Reduces wasted time and promotes safer, more ergonomic workplaces.

## 3. CLEANING (With inspection) (Seiso)

**Meaning:** Clean the workspace to maintain a safe and pleasant environment.

✓**Impact on SDGs:**

- **SDG 3 – Good Health and Well-being:** Clean environments reduce occupational hazards and disease.
- **SDG 6 – Clean Water and Sanitation:** Promotes cleanliness and hygiene, indirectly supporting water conservation and sanitation practices.

## 4. STANDARDIZE (Seiketsu)

**Meaning:** Establish standards and procedures to maintain the first three steps.

✓**Impact on SDGs:**

- **SDG 4 – Quality Education:** Promotes knowledge sharing and continuous learning via documented best practices.
- **SDG 16 – Peace, Justice, and Strong Institutions:** Encourages accountability, transparency, and systematic operations.

## 5. SUSTAIN (Shitsuke)

**Meaning:** Maintain and review processes regularly to ensure continuous improvement.

✓**Impact on SDGs:**

- **SDG 11 – Sustainable Cities and Communities:** Promotes orderly, safe, and inclusive work environments.
- **SDG 17 – Partnerships for the Goals:** Encourages teamwork, discipline, and collaboration towards shared sustainability goals.

## **Overall Benefits of 5S for Sustainable Development:**

- **Reduces Waste** (Material, Energy, Time) → SDG 12
- **Improves Health & Safety** → SDG 3
- **Boosts Operational Efficiency** → SDG 8
- **Supports Circular Economy Principles** → SDG 13, 9
- **Encourages Ethical & Responsible Practices** → SDG 16

## **Organizations Participated in the 5S Conclave**

- SARDAR VALLABHBHAI PATEL INTERNATIONAL AIRPORT, AHMEDABAD
- ASHOK LEYLAND LIMITED, UNIT II, HOSUR
- SAIL - BOKARO STEEL PLANT, Bokaro
- ADANI POWER LIMITED, RAIPUR TPP, RAIPUR
- RANE BRAKE LINING LIMITED, TRICHY
- V-GUARD INDUSTRIES LIMITED, PERUNDURAI.
- HI-TECH ARAI PVT. LTD., MADURAI
- MSPGCL, URAN,
- TEXMO INDUSTRIES - PUMP DIVISION, COIMBATORE
- VEDANTA LTD., LANJIGARH
- TITAN COMPANY LIMITED-EYECARE DIVISION, CHIKKABALLAPUR
- SENTHIL ANANTHARAMAN, HYDERABAD
- SYNGENE INTERNATIONAL LIMITED, BANGALORE
- SIMPSON & CO.LTD, CHENNAI
- GODREJ CONSUMER PRODUCTS LTD.PONDICHERRY
- ECONOMIC EXPLOSIVES LIMITED, Nagpur
- ARJAS STEEL PRIVATE LIMITED, ANANTAPUR
- NABISCO CONFECTIONERY AND FOOD INDIA PVT. LTD.,
- KANSAI NEROLAC PAINTS LTD, HOSUR
- UTKAL ALUMINA INTERNATIONAL LIMITED, RAYAGADA
- V-GUARD INDUSTRIES LIMITED,, SIKKIM
- ADANI POWER LIMITED, TIRODA TPP, TIRODA
- BAERLOCHER INDIA ADDITIVES PVT. LTD., DEWAS
- JSW STEEL LIMITED, SALEM WORKS, Salem
- RCF LTD., MUMBAI
- SOLAR INDUSTRIES INDIA LIMITED, Nagpur
- THE RAMCO CEMENTS LIMITED, R.R NAGAR, VIRUDHUNAGAR
- CARBORUNDUM UNIVERSAL LIMITED, IC DIVISION, Hosur
- NDDB DS - ALAMADHI SEMEN STATION, CHENNAI
- STAR CEMENT LTD, SILIGURI
- THE RAMCO CEMENTS LIMITED, ARIYALUR.
- THE SIVAKASI LIONS MATRIC HR SEC SCHOOL, SIVAKASI

- GODREJ CONSUMER PRODUCTS LTD., PONDICHERRY
- LUMINOUS POWER TECHNOLOGIES PVT LTD (PH01), KRISHNAGIRI
- ASHOK LEYLAND LIMITED, ENNORE
- FORBES MARSHALL PVT. LTD, HAVELI
- KPR INSTITUTE OF ENGG. & TECH, COIMBATORE
- TVS SUNDARAM INDUSTRIES PVT. LTD., PUDUKKOTTAI
- RANE ENGINE VALVE LTD, MEDCHAL
- SAIL - BOKARO STEEL PLANT, Bokaro
  
- RCF LTD., MUMBAI
- NTPC LIMITED, KUDGI, KUDGI
- FORBES MARSHALL PVT. LTD, HAVELI
- GALA INDIA CANDLES PRIVATE LIMITED, THOOTHUKUDI
- BANNARI AMMAN INSTITUTE OF TECHNOLOGY, ERODE
- ITC LIMITED - FOODS DIVISION, ICML- TRICHY,
- BHEL, TRICHY, TRICHY
- ITC LIMITED - FOODS DIVISION,, ICML- TRICHY,
- V-GUARD INDUSTRIES LIMITED, PERUNDURAI, PERUNDURAI
- THE RAMCO CEMENTS LIMITED, R.R NAGAR, VIRUDHUNAGAR
- GALA INDIA CANDLES PRIVATE LIMITED, THOOTHUKUDI
- V-GUARD INDUSTRIES LTD, SOUTH SIKKIM
- TVS MOTOR COMPANY LTD., HOSUR
- JASMINE CONCRETE EXPORTS PVT LTD, DINDIGUL
- NTPC, KHARGONE
- TKIL INDUSTRIES PRIVATE LIMITED, PIMPRI
- BIOCON BIOLOGICS LIMITED, BANGALORE
- ARJAS STEEL PRIVATE LIMITED, ANANTAPUR
- ADANI POWER LIMITED,UDUPI TPP, UDUPI
- SENTHILKUMAR TEXTILE MILLS PRIVATE LIMITED, ERODE
- THE RAMCO CEMENTS LIMITED, ALATHIYUR, ALATHIYUR
- GOVERNMENT COLLEGE OF ENGINEERING, TIRUNELVELI, TIRUNELVELI
- AQUA SUB ENGINEERING FOUNDRY DIVISION, COIMBATORE

## **Summary**

The 5S methodology promotes efficiency, cleanliness, and continuous improvement, aligning closely with multiple Sustainable Development Goals by minimizing waste, improving safety, and encouraging responsible resource use. It transforms workplaces into sustainable systems that support long-term ecological, economic, and social well-being.

## Snapshots of the 11<sup>th</sup> National Conclave on 5S









