49th Annual Conference of Federation of Corrugated Box Manufacturers

17th, 18th & 19th Dec 2021 ITC Royal Bengal, Kolkata – India





TECHNICAL SESSIONS

Man Machine Material

Subjects & Speakers

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From The Desk of: Chairman, Technical Sub-Committee



The corrugated board packaging market is expected to grow at a CAGR of 8.1% during the period of 2021 to 2026. The factors like rising e-commerce sales, growing demand for FMCG and pharmaceutical packaging are propelling the market growth.

To keep stride with the growing market, we need to keep upgrading our MAN, MACHINE & MATERIAL & ensure that our revenue graph is in the green.

Keeping this in mind the Technical Sub – Committee has planned IV technical sessions, which will introduce us to technologies, raw material & HR resource policies that will be an eye opener today, yet a part of our business practices in the years to come.

To whet your appetitefor knowledge & excellence, I am pleased to present below, the topics & expert speakers finalized till date. We will be updating the same on receiving the confirmations from other speakers.

See you at the Technical Sessions for an interactive, knowledge sharing experience.

Shekha Hobe!!

Ram Kumar Sunkara TC ROYAL BENGAL, KOLKATA Chairman – Technical Sub Committee 49th FCBM Conference Committee

3rd December, 2021

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Technical Sessions - Index of Speakers with Subject

SI.	Subject	Speaker
1	Stress, Team & Management for Success - "Man Need Not Work Like A Machine for Materials Gains"	Dr. Gnanvatsal Swami Life Coach & Eminent Speaker
2	Human Capital (Resources) The make-or-break factor in today's times for SME's	Mr. Vijay Panjabi Director, Radheshyam Packwell Pvt. Ltd.
3	Improving the performance of employees thru KRA (Key Responsible Area) and KPI (Key Performance Indicators)	Mr. Nirmal Sadgir Director, DBS Packaging Pvt Ltd. Pune
4	IIOT in box company (Industrial Internet of Things)	Mr. Mayank Chidri Founder & Director, IOTSYS Technologies Private Limited, Pune
5	Corrugated Board Manufacturing Cluster – Is it a Reality?	Mr. M. S. Rajesh Managing Director, Tirupur Corrugators Private Limited
6	Packaging Inks – changing regulatory landscape	Mr. Jatin Takkar Head - Product Safety & Regulatory, Siegwerk India
7	Effluent Treatment of Ink Wash in Box Plant	Mr. Abhay Agarwal Director, NPI paper and Paperboard Pvt Ltd
8	Effluent Treatment of Starch Wash in Box Plant	Mr. Bhaskar Reddy Director, Amylodex Pvt. Ltd, Hyderabad
9	New concept in FG storage	Mr. P. V. Ashwin Director, Mohan Boards Pvt Ltd. Kolkata
10	Packaging schools in India and abroad BER 17 -	Mr. Nirav Chhajed Director, Pack O Pack Industries, Mumbai
11	Relation between Bursting strength of Kraft before and after ply separation of corrugated board by water soaking method	Mrs. Madhura Parag Mahajan Head of Department, Printing Technology, Pune Vidyarthi Griha's College of Eng. & Tech.

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Sl. Subject

- 12 Environmentally sustainable Vegetable Inks for Flexo Printing of Corrugated Boxes
- 13 Cost Index for Corrugated boxes

Speaker

Mr. Bodi Kampani Managing Director, Chairman Young Concepts India Inc.

Mr. Ramkumar Sunkara Chairman R & D Committee, Federation of Corrugated Box Manufacturers of India

Ms. Geetika Goyal Analyst

Mr. Gobind Gurbani CEO, Pinkcity Chemicals (Corrugated Box Division)

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Technical Sessions

Stress, Team & Time Management for Success

Speaker: Dr. Gnanvatsal Swami Life Coach & Eminent Speaker



About Speaker:

By his profound knowledge and insights on a wide spectrum of subjects, Dr. Gnanvatsaldas has participated in various conferences and inspired millions of people across India, USA, Europe, Canada, Australia and New Zealand. He has been one of the most popular motivational speakers from BAPS creating an everlasting positive impact in people's lives transforming their intellectual quotient, emotional quotient and spiritual quotient.

He served as an interpreter with earlier BAPS Spiritual Head HH Pramukh Swami Maharaj in many of his religious world tours. He has been instrumental in carrying out many Youth Development and Social, Cultural projects of BAPS at Vadodara, Gujarat, India.

Session Brief:

"MAN NEED NOT TO WORK LIKE A MACHINE FOR MATERIAL GAINS"

Everyone wants to succeed and in the course follow a journey where the mission always seems far. One keeps struggling between the challenges of the business or profession and the personal life.

The subject caption is self-explanatory and this motivational talk by Swamiji will unfold a lot of thought and views that could have an impact in transforming the thought process for the better both youngsters and matured minds.

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Technical Sessions

Human Capital (Resources) ... The make-or-break factor in today's times for SME's

Speaker: Mr. Vijay Panjabi Director, Radheshyam Packwell Pvt. Ltd.

About Speaker:

Vijay Panjabi is a Director at Radhesham Wellpack Pvt Ltd since 2000 and overseeing its operations, along with his brothers Vishal and Vikram.

The company was established in the year 1975 by his father Shri Ramesh Panjabi in a small 400 Sq. Ft. shed in Pune. Today the company continues to grow. A built up area of almost 1, 10,000 Sq. ft., a fully automatic plant & latest state of art facilities in the five star Chakan industrial area of Pune.

Session Brief:

Employee retention is a phenomenon where employees choose to stay on with their current company and don't actively seek other job prospects. The opposite of retention is turnover, where employees leave the company for a variety of reasons.

Every company and industry have a varying retention rate, which indicates the percentage of employees who remained with the organization during a fixed period.

Today we are seeing lot of turnovers of employees due to new plants coming up. We invest a lot in employee, and he leaves job due any reason, it is big loss for the organization.

Radheshyam Packwell is a corrugated box manufacturing unit located in Pune. They have state of art automatic production line. R 17 _ 10 _ 10 _ 10

Radheshyam Packwell have reduced employee turnover by implementing various programmes. One of them QIT (Quality Improvement Team) has achieved a great success in retaining employees, increasing productivity, reducing cost, enhancing work safety.

Learn how they have done it.

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Technical Sessions

Improving the performance of employees thru KRA (Key Responsible Area) and KPI (Key Performance Indicators)

Speaker: Mr. Nirmal Sadgir Director, DBS Packaging Pvt Ltd. Pune

About Speaker:

Nirmal is commerce graduate from the University of Pune and Management studies from S P Jain Mumbai.

A seasoned Entrepreneur with diverse professional experience of over 12 years having keen interest and expertise in Corrugation Industry Segment.

Session Brief:

Like many management terms, the word performance management has been interpreted and the concept implemented, in many ways. But the major goal in any good performance management is to ensure that employees' activities – what they do and how well they do them – are in sync with the goals of the organization while maintaining a motivated and happy workforce. To achieve it we must answer these questions.

- 1. Do your employees know what we are expecting from them?
- 2. Are their role areas identified?
- 3. Do your employees have clarity of weightage of their performance area?
- 4. How effectively their performance is being measured?
- 5. How frequently their work has been appraised?

DBS Packaging Pvt Ltd is a semi-automatic corrugated box manufacturing company located out of Pune. They implemented KRA and KPI in their factory and have achieved very good results. It has given them so much confidence, that they currently in expansion mode and installing automatic plant.

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Technical Sessions

IIOT in box company (Industrial Internet of Things)

Speaker: Mr. Mayank Chidri Founder & Director, IOTSYS Technologies Private Limited, Pune

About Speaker:

Mr. Mayank Chidri is an alumnus of College of Engineering, Pune and IIM Indore. He is a passionate and dynamic entrepreneur who loves solving problems with Technology.

He has a diverse experience of working with an Auto OEM, a financial services firm and also look after day-to-day operations of a corrugated box manufacturing. He aims to transform the MSME sector in India with Technology driven products.

Session Brief:

Unplanned Machine downtimes are very expensive. Controlling unplanned downtimes helps save direct costs and improve productivity.

CorruMonitor is India's first IIOT platform designed for Corrugated box Manufacturers. It helps them to

- Reduce Machine Downtime
- Improve Machine Utilization
- Maximize Plant Efficiency

CorruMonitor lets you conveniently monitor Job wise machine data in <u>Real time</u>, identify top reasons for <u>Production Losses</u> and <u>Track Performance</u> of Assets such as rotary dies. The platform also helps in Reducing Changeover time by using <u>Job Analytics</u> and <u>Operator Analytics</u>. You can get Alerts on your mobile for unexpected events that prevent you from running your plant at full capacity. The platform can be integrated with your current ERP system to with your daily operations.

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These are 3 of the biggest benefits of adopting a fully connected IIoT manufacturing operation:

- Increase efficiency
- Reduce Errors
- Reduce Costs

What else can IIOT do?

- Preventative Maintenance
- Worker Safety solutions
- Paper Consumption Monitoring
- Boiler Management



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Technical Sessions

Corrugated Board Manufacturing Cluster – Is it a Reality?

Speaker: Mr. M. S. Rajesh Managing Director, Tirupur Corrugators Private Limited



About Speaker:

He is graduate in Business Management from PSG college of Arts & Science, Coimbatore.

Has 15 years of experience running corrugation box manufacturing unit under name Krishna Packages.

Is Managing committee member of SICBMA Coimbatore chapter for last 12 years.

Is Managing committee member of SICBMA and FCBM at national level for last 4 years.

He is also Managing committee member of Tirupur Chamber of Commerce & Industries.

Session Brief:

Today there is need to upgrade the technology of manufacturing corrugated boxes. There is more and more demand from customers for corrugated boxes manufactured from automatic plants. However, small plants cannot think of investing in large scale automatic plants.

Central as well as state governments have announced Common Production Infrastructure Scheme, which aims to address the needs of the industries, through formation of well-defined clusters in specified geographical areas to enable the Micro and Small Enterprises to have better access to resources, linkages to credit and enhance their marketing competitiveness.

M/s. Tirupur Corrugators Private Limited, the Special Purpose Vehicle (SPV) of Corrugated Box Micro Cluster, established a Common Facility Centre (CFC) with the financial assistance from Government of Tamil Nadu under Common Production Infrastructure Scheme.

Learn from Mr. M. S. Rajesh how along with fellow corrugators established this cluster and use this information to create your own cluster.

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Technical Sessions

Packaging Inks – changing regulatory landscape

Speaker: Mr. Jatin Takkar Head - Product Safety and Regulatory Siegwerk India



About Speaker:

Jatin Takkar is a seasoned professional with over a decade of experience in the food and packaging industries. He has worked across different verticals like Operations, Quality & Food safety as well as regulatory with strong market players like Nestle, Kraft Heinz and Siegwerk. He is working with Siegwerk as Head- Product Safety and Regulatory. With his expertise in food safety and his passion for ensuring packaging safety, he is heading an awareness campaign across different stakeholders in the packaging supply chain with the goal of ensuring food safety aspects of the packaging materials. Jatin have been deeply involved with several brand owners and regulatory bodies like FSSAI and BIS for raising the bar on packaging safety in India. He has registered himself as a empanelled trainer for FSSAI on the subject – "Packaging and Labelling" and is an active member of "Alert Panel on Printing Inks" at Bureau of Indian Standards. Jatin has published over 25 authored articles on the subject of packaging safety. He has even represented as a Food Contact Material Expert in various national and International forums presenting his views on subject of Food safety and Packaging Safety.

Jatin lives with the motto – "Ensure safe food for everyone and ensure safe packaging for every food".

Session Brief:

Packaging is an essential tool utilized by the food business operators to make their products stand out from the mass. Beyond the shelf appeal, packaging also provides protection to the content from physical, chemical and microbiological hazards. However, a lesser known fact is that the same packaging material could also be a source of chemical contaminants and hence may impact food safety as well as food quality.

Among the different components of packaging material, packaging inks play a critical role as they might hamper product and consumer safety. Each packaging ink is a mixture of different

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chemicals and some of these chemicals might be harmful while holding the potential to migrate to the foodstuff when getting in contact.

The chemical contaminants from the packaging inks can get transferred to the foodstuff by a process called migration. There are different types of migration:

- 1. Set-off migration
- 2. Diffusion migration
- 3. Gas-phase migration



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Technical Sessions

Effluent treatment of Ink wash in box plant

Speaker: Mr. Abhay Agarwal Director, NPI Paper and Paperboard Pvt. Ltd.

About Speaker:

Abhay is a Mechanical Engineer from Bucknell University in Pennsylvania, USA. He is a keen learner and adopter of new technologies.

NPI's automatic board line in West Bengal commissioned in 2017.

Prior to this, Abhay co-founded a startup in Eastern Africa, was involved for several years the development finance & research sector in India with the Institute for Financial Management & Research (IFMR) and JPAL South Asia, as well as electromechanical assembly manufacturing for Railway Locomotives.

Session Brief:

An Effluent Treatment Plant (ETP) is an important aspect of the manufacturing process when it comes to wastewater.

Flexo printing process generates wastewater when left over ink in printer is washed for next order change.

The treated ink wash wastewater (or effluent) can be reused or discharged into a sanitary sewer or into the environment's surface water.

Objective of treating ink wash wastewater is

- To clean and recycle ink wash wastewater for future use
- To protect the environment from pollution and contribute to long-term development

Learn from our own member how he is doing it and protecting the environment.

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Technical Sessions

Effluent treatment of Starch wash in box plant

Speaker: Mr. Bhaskar Reddy Director, Amylodex Pvt. Ltd., Hyderabad

About Speaker:

Mr. Bhaskar Reddy is Science Graduate with post-graduation in Economics, Diploma in Business Management and ICWAI (Int)

He has more than two decades experience in formulating and application of Starch Adhesives.

He is a member of the German Research Association on starch and has been accredited with B.K. Doshi award for innovation and Excellence.

Session Brief:

Corrugation process generates wastewater when leftover starch is washed for shut down at the end of the day or the adhesive circulation system is periodically cleaned.

This wash water (effluent) cannot be discharged into the Municipal sewage or open land as it will violate environmental norms and municipal laws.

Using wash water in preparation of Adhesives, treating wash wastewater and minimizing wash water generation are some of the options available.

Effluent Treatment Plant (ETP) is an important part of a comprehensive wash water handling system.

Learn from industry expert how to do it and protecting the environment.

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Technical Sessions

New concept in FG storage

Speaker: Mr. P. V. Ashwin Director Mohan Boards Pvt. Ltd., Kolkata



About Speaker:

Qualifications: B.E. (Mechanical) - Anna University, PGDM from MDI, Gurgaon

Work Experience: WABCO TVS - 1 year, Tata Steel - 5 years, Corrugation - 7 years

Expertise: Improvement in operational efficiencies, Scaling of box making operations and De-bottlenecking, Optimizing resource utilizations.

Session Brief:

Space shortage is the biggest issue in box unit.

With customers insisting on just in time supply and increasing SKU's every other day, space to store finished goods is becoming a big issue.

Our own member has found a unique way to solve this problem.



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Technical Sessions

Packaging schools in India and abroad

Speaker: Mr. Nirav Chhajed Director Pack O Pack Industries, Mumbai



About Speaker:

B.S in Industrial Technology and Packaging from California Polytechnic State University.

Activities and Awards

- AICC Structural Design Student Competition Winner
- 48-hour repack 2019 Placed top 10

Projects and Research Papers

- Senior Project Influence of Fiberboard Container Design on its Bulging Performance Impacted by Compression
- Alternative Coatings Project Analyzing different types of cardboard boxes and carrying out different tests to find the best coated box.
- Beer Box Testing Handle Jerk Testing and Tensile Testing
- Performance Testing of Stretch Wraps Tensile Properties Test, Containment Force Test, Incline Impact Test & Rotational Edge Drop Test
- Business Management Research Paper Evaluated the operations and decision making of a company and the reason behind its acquisition.

Session Brief:

Next generation is looking for education in packaging field. There are many universities and colleges giving undergrad and master's degree in packaging. Know all about them from Nirav who has done extensive study on this. He obtained is Bachelor of Science degree in packaging from US college. He will share his experience.

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Technical Sessions

Relation between Bursting strength of Kraft before and after ply separation of corrugated board by water soaking method

Speaker:

Mrs. Madhura Parag Mahajan

Head of Department, Printing Technology, Pune Vidyarthi Griha's College of Engineering and Technology & GK Pate Wani Institute of Management, Pune



About Speaker:

Mrs. Mahajan has Master degree (M.E) from Pune university in printing technology and is currently working for her Ph.D. in printing technology. She has Industrial, Teaching and Research experience spread over 25 years. She has published papers in National and international journals.

Recognition / Awards

- Recognized as Best Teacher by Late. V.G. Joshi Trust, Pune in 2012
- Recognized for the efforts to conduct Print Olympiad, 3 rounds-competitions for western region printing students
- Presidential Print Award conferred by All India Federation of Master Printers, New Delhi

Session Brief:

As an audit requirement, many a times corrugated boxes are sent for analysis of paper specification like GSM and BF used in fabrication of the boxes.

For this purpose, individual paper plies are separated by soaking the sample of corrugated board in water and carrying out ply separation.

After the ply separation, paper is conditioned and tested for GSM and Bursting strength. Due to water soaking method, there is change in bursting strength of paper as compared to its value before fabrication into corrugated board.

This presentation will throw an idea on how water soaking of paper during ply separation process impacts the bursting strength and GSM before fabrication into corrugated board and after ply separation by water soaking method.

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Technical Sessions

Environmentally sustainable Vegetable Inks for Flexo Printing of Corrugated Boxes

Speaker: Mr. Bodi Kampani Managing Director, Chairman Young Concepts India Inc.



About Speaker:

Mr. Kampani graduated with Honours from St. Xavier's College affiliated to Kolkata university followed by MBA from XLRI Jamesdpur.

Worked for 43 years' experience in printing inks manufacturing and marketing.

Held prestigious positions as President and Managing Director of Toyo Ink India.

Prior to his decade long stint with Toyo Ink India, he served for 34 years in various capacities – rising to a Whole Time Director Commercial--Managing Marketing and Technology transfer for the largest Printing and coating industry in the world namely Coates Lorrileux (Total France subsidiary) and which later came to Known as DIC – Japan (100% owner of Sun Chemical USA).

INDIAN INSTITUTE OF PACKAGING* - Past Chairman and Member of the board of Governors. *Indian Institute of Packaging is an Autonomous body of the Ministry of Commerce and Industries, of the Government of India, affiliated to the Asian Institute of Packaging & World Packaging Organization. Besides it is an Association formed by The Industry, For the Industry & Of the Industry with Govt. Of India as an Equal Partner all India

Session Brief:

What is Vegetable Ink? EMBER 17 - 19, 2021

Vegetable ink is ink made from linseed (flax), castor, canola, safflower, soybeans, corn oil, or other vegetable-based oil. Soybean and linseed are the most commonly used oils, but it is not uncommon to use a variety of different oils. This is in contrast to traditional ink, made from petroleum. Because it comes from vegetables, vegetable ink is better for the environment than petroleum-based ink.

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Renewable & Sustainable

Petroleum ink comes from crude oil, a harmful, finite, non-renewable resource and fossil fuel. Yet vegetable and soy inks are made from vegetables – a natural resource that is renewable, sustainable, and fast and easy to grow.

Petroleum also requires a lot of energy to produce, whereas it takes just a small amount of energy to cultivate vegetables. Vegetable ink can even come from a by-product of existing vegetable crops, so there is no need to grow new crops.

Petroleum is also known to be toxic to the planet. As they are plants, vegetables reduce air pollution in their production by absorbing harmful CO2.

Easy to Recycle

When recycling paper, all paper goes through a de-inking process to remove ink from the paper. It is much easier and quicker to remove vegetable ink than standard petroleum-based ink. In fact, some petroleum-based ink cannot be recycled, meaning lots of the paper it's printed on goes to waste. Because vegetable ink is easy to recycle, there is less energy required to recycle the paper.

Due to all these factors large multinational are slowly switching over to vegetable inks for flexo printing of corrugated boxes. Let us learn about them and be prepared in advance for new technology inks which will invade us.

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Technical Sessions

Cost Index for Corrugated boxes

Speakers: Mr. Ramkumar Sunkara Chairman R & D Committee, Federation of Corrugated Box Manufacturers of India Ms. Geetika Goyal Analyst



About Speaker:

Ms. Goyal is B. Tech in chemical engineering from Banasthali University. Has MBA from Lal Bahadur Shastri Institute of management.

Worked in Mother Dairy fruits and vegetables Pvt. Ltd as executive and in Perfetti Van Melle as packaging Intern.

Worked as Industry Analyst at The smart Cube.

Session Brief:

Everyone is aware how paper prices are increasing on daily basis like share prices Bombay stock exchange. Getting these price increase from customers has become a nightmare to all of us.

It is not only us, but even customers are having nightmares in trying to understand how and why these prices are going up.

Procurement department is having hard time to explain to upper management this price increase. In the process, they are demanding some authenticated information on price increase. Some customers are even doing their own internal analysis to arrive at some formula that can guide them to approach the price raise subject in more rational ways. Some customers are monitoring imported wastepaper prices on quarterly basis to understand paper price increase and accordingly approach the issue of price increase of corrugated boxes.

It is very important for us to understand how the customers are thinking on this subject.

Ms. Goyal who has done such an analysis for a multination company and will tell us how these companies are studying the issue of pricing of corrugated boxes.

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Mr. Ramkumar Sunkara will tell us how we can use the WPI (Wholesale Price Index) published every month by Office of Economic Adviser to Govt. of India under Ministry of Commerce & Industry, to inform customers about price changes. This is authenticated information as it is published by Govt. of India and be used as cost index for box pricing.



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Technical Sessions

Corporate Social Responsibility (CSR) and Indian Companies Act.

Speaker: **Mr. Gobind Gurbani** CEO, Pinkcity Chemicals (Corrugated Box Division)



About Speaker:

He is Post Graduate in Economics from University of Rajasthan, Jaipur.

Certificate Course in CSR from Centre for the promotion of imports from Developing Countries (CBI), The Netherlands. Certificate Course on Managing Training Programme from IHK Academy / GIZ Germany. Past President of RCBMA Member of TAPPI Member of American Economic Association Representing a NGO at EcoSco Council United Nations - New York.

Has 35 years of experience running Corrugation box manufacturing unit.

Session Brief:

Corporate Social Responsibility (CSR) means that companies integrate social and environmental concerns in their business operations and in their interaction with business relevant groups on a voluntary basis.

Section 135 of the Companies Act, 2013 (the Act), w.e.f 1.4.2014 requires the Board of Directors of every company having a net worth of Rupees 500 crore or more, or turnover of Rupees 1,000 crore or more or a net profit of Rupees 5 crore or more, during any financial year, to ensure that the company spends in every financial year at least 2% of the average net profits of the company made during the three immediately preceding financial years on Corporate Social Responsibility (CSR) in pursuance of its policy in this regard.

We may not fall under the categories of Rs. 500 crores net worth or Rs. 1000 crores turnover. Many of us fall in the category of Rs. 5 crore net profit. Hence learn how we can implement CSR in our industry.