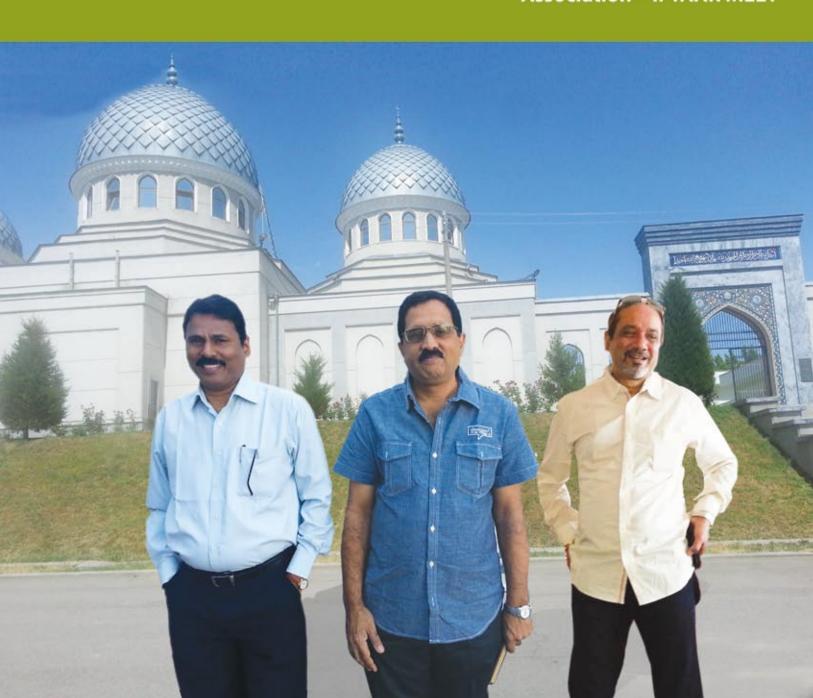




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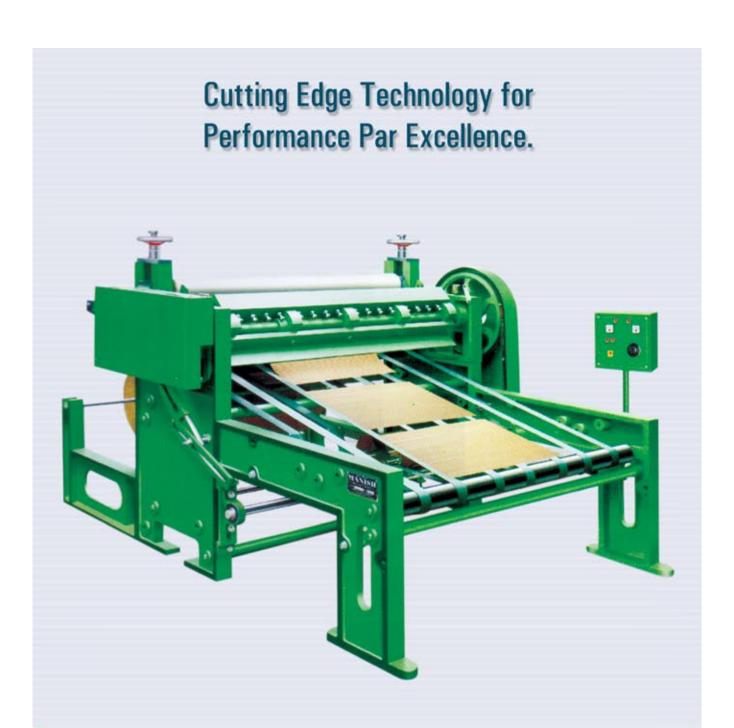
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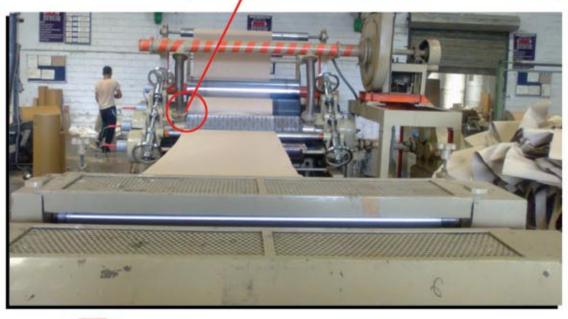
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From the Editor's Desk

I am very happy to share my views with our readers about the Tashkent trip undertook in connection with the 3rd Managing Committee meeting of the Federation held on 3rd June, 2013. I and our Association President, Mr.Xavier Jose joined the 40 member team of the Federation Managing Committee at Delhi for onward journey to Tashkent in Uzbekistan. We started from India on 2nd June by Uzbekistan airways which departed at 2.50 a.m. and arrived at 5.30 a.m. at Tashkent. Our accommodation was arranged at Miran International Hotel. Our three day trip was arranged in such a manner that the first day was kept for city tour and evening dinner and the second was used for the Managing committee meeting and third day was for visiting tourist centers in Tashkent.

As you know, Tashkent is the capital of the Republic of Uzbekistan, the most populated city in Central Asia and also a political, economic, cultural and scientific center of the country. This modern city is located in the north-eastern part of the country, in the foothills of the western Tyan Shan, valley of Chirchik, at the height of 440-480 meters above sea level. The history of modern Tashkent counts more than 2500 years. According to Abu Rayhan Beruni, the word Tashkent was originated from Turkic Tash" ("Stone") and "Kent" ("City"). Thus, Tashkent means "Stone City". Tashkent is the only city in which representatives from more than a hundred different nationalities live and work side by side. Of course, when we speak about Tashkent, it is unfair if we do not mention about its markets. Aromas of eastern spices, ripe fruits and vegetables, and hot lepeshkas will create the feeling that you're in Eastern tale. Cultural life in Tashkent is full of interesting events. There are many theaters, museum, exhibition and concert halls, stadiums and swimming pools, cafes, restaurants and nightclubs in the capital. Tashkent is called a solar capital, and this epithet is originated not only in relation to climatic conditions, but also because the city is famous for its hospitality to guests.

It was understood that the development of small and medium businesses in Uzbekistan, as well as the development of priority industry sectors, is clearly reflected in the packaging market: since the demand is growing for packaging equipment and materials. About 95% of manufactured goods require packaging - from food production to the engineering sector. It was estimated that the engineering, automotive, chemical, food, pharmaceutical, textile and building materials industry will emerge to advanced development, with more than two fold growth.

I must appreciate our Federation President and the officials for planning such a visit to Tashkent which enabled the corrugators to see many historic tourist centers and important

monument of our late Prime Minister Sri Lal Bahadur Sastriji who demised on 11th January, 1966 at Tashkent. Jai Jawan Jai Kisan.

R. Suresh Chief Editor



Publisher's Message

Dear Friends.

All of us Corrugators are concerned about the fall of the Indian Rupee in relation to U.S. Dollar. Many of our customers who are exporters are benefitted by this increase in value of U S Dollar. Some of our customers who depend on imports will have to face a tough situation.

Corrugators are affected because raw materials for paper are mostly imported into our country. We have very few plantations of paper/pulp grade wood varieties.

Corrugators are worried over the impact higher dollar cost on paper price.

We corrugators must insist on price increase for cartons. Our All India Federation has advertised in 'Economic Times' on all India level about the necessity of increasing the price of cartons mainly due to the above factor. We should stand firm and try and get price increase for cartons.

At the last Managing Committee Meeting, we have taken a decision to have a Study Class about the pricing of corrugated cartons. As an initial step the Association will prepare statement on cost break-up and circulate it among the members. If sufficient members show interest, we shall conduct the Study Class.

Regards,

N.X. George.



From the President's Desk

From the President's Desk

As usual, Onam festival was celebrated in a pompous manner. Onam is the national festival of Keralites which is celebrated with great fervour since ancient times in honour of the homecoming of the noble and legendary King Mahabali, Onam always inculcates a sense of oneness and need for unity among the people of Kerala irrespective of caste or creed.

As you are aware, we have faced a very severe situation during the month of April in relation to the price hike of paper and other raw materials. With a view to meet the challenging situation we had made an appeal to the consumers of packing materials requesting for price increase. We had also given wide publicity through news papers about the problems being faced by the corrugators. I hope this had some favourable response from the buyers of cartons.

Recently our parent organization had organized their managing committee meeting at Tashkent in Uzbekistan which was attended by me and our Chief Editor, Sri R. Suresh. It was really a good experience and we could see how the people at other end are living. The Committee had discussed lot of important points and good decisions were taken for the benefit of the corrugated industry in India. I really appreciate our President, Mr. Angola and his team for organizing such a meeting abroad. This had really provided an opportunity to meet, exchange ideas and stay with the stalwarts of Indian corrugated industry in a free and frank atmosphere for three days.

We are planning a technical seminar soon. I would request our members to share their views in regard to the selection of subjects and faculties for this seminar

Regards,

Xavier Jose



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PRACTICAL TIPS FOR IMPROVEMENT OF PERFORMANCE PARAMETERS OF CEB

Ram Kumar Sunkara

"Who is my competitor?"

- Who sells the largest number of cameras in India?
- Your guess is likely to be
- Sony,
- Canon or
- Nikon.
- Answer is none of the above.
- The winner is Nokia/Samsung whose main line of business . in India is not cameras but cell phones.
- Who is the biggest in music business in India?
- You think it is HMV, Sa-Re-Ga-Ma?
- Sorry.
- The answer is Airtel.
- By selling caller tunes.
- 20 years back what were Indians using to wake them up in the morning?
- The answer is "alarm clock."
- Where is it now? What do we use today for waking up in the morning?
- Cell phone! An entire industry of clocks disappeared without warning thanks to cellphones.
- Who is Aamir Khan's competitor?
- Shah Rukh Khan and the other Khans.
- No No ... The cricket gods Sachin and Sehwag are.
- IPL brought cricket down to 20 over's and reduced it to the length of a 3 hour movie.

- Cricket became film's competitor. On the eve of IPL matches movie halls ran empty.
- Desperate multiplex owners requisitioned the rights for screening IPL matches at movie halls to hang on to the audience.
- Who was the toughest competitor to British Airways?
- Singapore airlines? Indian • airlines?
- Maybe, but there are better Performance Parameters answers. There are competitors that can hurt all these airlines.
- The answer is video-conferencing and tele-presence services of HP and Cisco.
- Future is scary!
- The boss of an IT company once said something interesting about the animal called competition.

He said

- "Have breakfast ...or.... be breakfast"! That sums it up . rather neatly.
 - -Dr. Y. L. R. Moorthi is a professor at the Indian Institute of • Management Bangalore.
- Who is your competitor?
- Paper mills setting up corrugation units.....
- Big multinational box makers.....
- No.....
- It is your self. Your lack of knowledge, attitude, unity, pride, • or

Now to the Subject at hand

- **Tips** to improve board properties.
- reduction with Cost improvement of board quality.
- Is it possible?
- "Yes"
- We will look at optimization of material and process.

- Bursting Strength (B.S)
- Compression Strength (C.S)
- Flat Crush Strength (F.C.T)
- Puncture Resistance (P.R)
- Bending Stiffness.

Developments in the industry

- There has been an improvement paper manufacturing technology in recent times in India.
- The Kraft paper production techniques has gone a sea change in the recent times.
- We now have high BF test liners being produced quite regularly.
- BF like 28 and 35 have now become common.
- In past Ring Crush Test of paper was not a parameter that paper makers would think of.
- Now we have mills producing high ring crush test liners.
- This has helped in optimization of compression strength of box.

- We are able achieve higher compression strength using • lower GSM of papers.
- The concept of medium did not exist in Indian paper mills glossary.
- Now we do have mills producing medium with well defined CMT values (Concora medium test)
- We are able achieve higher CMT vales in lower grades of paper.
- This has helped in increasing the flat crush strength of corrugated board using lower GSM, thus reducing the cost.
- In design front too we have developments.
- Earlier we had a very limited flute profiles.
- In given profile we had limitation of design.
- ike fixed take-up factor with respect the flute height.
- We had to keep higher take up factor in order to achieve higher caliper of the corrugated board.
- Now we have many options in choosing the flute profiles.
- We can now design flute rolls with a very low takeup factor BF Related but having flute heights in the range up to 5.2 mm.
- This means using less paper we can produce corrugated boards with high ECT value leading to higher compression strength of box.
- These developments have lead to reduction in cost with increase in performance parameters.
- Let us have a look at them in details.

Optimizing which parameters

Bursting Strength (B.S)

- Compression strength (C.S)
- Flat crush strength (F.C.T)

Optimizing Bursting Strength of Corrugated Board

Selection of Paper for B. S

- For liners it is BF of paper multiplied by GSM of paper.
- For medium it is BF of paper multiplied by GSM of paper multiplied by contribution factor.
- Contribution factor is between 10% to 50% of paper B.S

GSM Related

Paper Grade	GSM Range %	Contribution
Waste paper	90 – 110	48.60 %
based	120 – 150	37.60 %
Agro based	90 – 110	29.15
	120 – 150	36.73 %

PLY Related

Paper Grade	Ply	%Contribution
Waste paper	3	42.45 %
based	5	40.86 %
	7	57.05 %
Agro	3	27.01 %
	5	34.20 %
	7	39.92 %

Paper Grade	BF Range	%Contribution	
Waste paper	8 – 14	38.61 %	
based	14 – 22	51.40 %	
	22 – 28	29.71 %	
Agro	8 – 14	-	
	14 – 22	36.20 %	
	22 – 28	32.64 %	

Flute Related

Paper Grade	Flute Type	%Contribution	
Recycled –	С	47.28 %	
Waste paper	В	43.28 %	
based	E	38.87 %	
Agro	С	37.00 %	
	В	30.80 %	
	E	-	

Optimization for B.S

Тор	150/24	150/28	150/28	150/28	150/35	150/35
Flute 1	150/24	150/20	150/18	150/16	150/16	150/16
Liner 1	150/24	150/24	150/24	150/28	150/22	150/16
Flute 2	150/24	150/20	150/18	150/16	150/16	150/16
Liner 2	150/24	150/24	150/28	150/28	150/22	150/28
B.S	12.24	12.60	13.08	13.56	12.81	12.81
	-14.40	-14.40	-14.70	-15.00	-14.25	-14.25
Cost	53.81	51.46	51.07	50.87	49.72	49.27
Diff		4.37%	5.09%	5.46%	7.60%	8.44%

Observation

- There is no change in required B.S and weight of the carton.
- The paper cost reduces by Rs. 2=00 per Kg.
- Here we have done only changes in paper grade.
- These boxes have no compression strength specified.

Optimizing Compression Strength of Corrugated Box

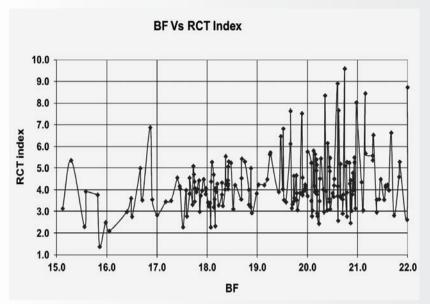
Cost optimization for C.S **Specified CFB**

- In last 5 to 6 years, the compression strength property has take this industry to new level ofthinking.
- Let us look at this property and how to optimize it from material specification point of view Compression strength

Compression strength

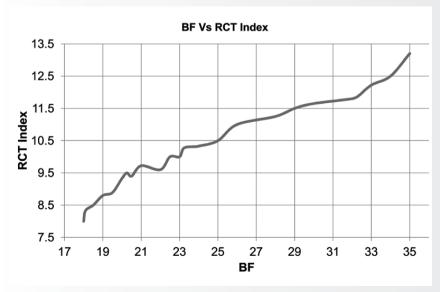
- C.S of box depends on the edge crush strengthof corrugated board.
- Edge crush strength of corrugated board depends on the ring crush strength of paper.

- We have observed that the paper is being manufactured with BF as primary parameter.
- The cost of paper also depends on BF of paper.



BF Vs RCT index of Kraft paper

- From the graph we observe that there is no corelation between the BF and RCT index for paper produced by mills following only BF parameter.
- In some paper mills, the 18 BF paper has more RCT than 22 BF paper.
- Further there is no consistency in values.
- We have now observed that some paper mills have developed paper with consistent RCT and positive co-relation with BF giving us chance to optimize CS of box against cost.



High Ring Crush Test

- We have observed that some paper mills are producing paper with higher RCT value and off course charge more money for it.
- We have some reservations on using this paper as we fell that the higher paper cost will increase cost of the box.
- I would like to show that the higher cost of paper actually leads to lower cost of box.

How?

Let us look at this work sheet.

Box Parameters		Paper	High I	RCT	Norma	Normal RCT	
660	Length mm	Grade	GSM	BF	GSM	BF	
440	Width mm	Тор	180	28	180	28	
280	Height mm	Flute 1	120	18	140	18	
5	Ply	Middle	140	20	140	20	
вс	Flute	Flute 2	120	18	140	18	
550	C.S (Kgs)	Inner	140	20	180	28	
Ave Calculated CS		56	5	55	8		
Ave Calculated ECT		7.17		7.08			
Cal. weight in gms		1,349		1,5	1,512		
Cost in Rs.		47.8	34	53.3	14		

Box	Parameters	Paper	High	RCT	Norma	al RCT
320	Length mm	Grade	GSM	BF	GSM	BF
200	Width mm	Тор	180	22	200	22
195	Height mm	Flute 1	150	22	180	22
3	Ply	Middle	180	22	200	22
Α	Flute	Flute 2	0	0	0	0
250	C.S (Kgs)	Inner	0	0	0	0
Ave Calculated CS			26	8	26	2
Ave Calculated ECT		5.89		5.76		
Cal. weight in gms		27	7	31	7	
	Cost in Rs.		10.3	22	11.	38

Box Parameters		Paper	High RCT		Normal RCT		
1100	Length mm	Grade	GSM	BF	GSM	BF	
550	Width mm	Тор	275	28	350	28	
480	Height mm	Flute 1	180	22	180	22	
5	Ply	Middle	200	28	250	28	
BA	Flute	Flute 2	180	22	180	22	
1100	C.S (Kgs)	Inner	200	28	250	28	
Ave Calculated CS		1113		1100			
Ave Calculated ECT		ECT	13.29		13.13		
Cal. weight in gms		gms	4,26	53	4,8	4,887	
Cost in Rs.		165.52 18		184	72		

Optimizing grades for C.S of box

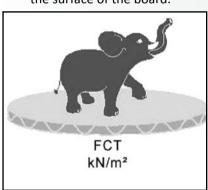
We have observed that from

a small 3 ply box to a large 5 • ply box, we can achieve a cost • reduction of 10% as well as weight reduction of 12%.

- This not only help us cost optimization but also in source reduction.
- Let us now look at an another property of corrugated board, namely F.C.T (Flat crush test)

What is Flat Crush Test - F C T

- Describes the strength of the corrugating medium and the success of the corrugating.
- The flat crush test is a measure of the resistance of the flutes in corrugated board to a crushing force applied perpendicular to the surface of the board.



Flat Crush Test - F C T

- Flat crush is a measure of the flute rigidity of corrugated board.
- A high flat crush value indicates a combination of good flute formation and adequate strength of corrugating medium.

FCT

 Assuming that we do every thing right during flute formation, the FCT depends to a large extend on the property called CMT of paper.

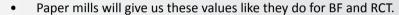
- CMT stands for "Concora Medium test"
- There a direct relation between CMT of paper and FCT of the board.

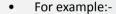
CMT

- Using the rack and comb system, 10 flutes are formed.
- These flutes are crushed in a test crusher to determine the load the flutes can carry before getting deformed.

CMT

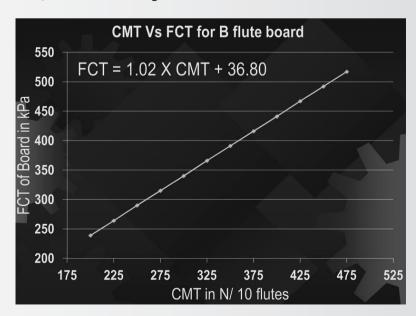
- It is measured in Newton's per 10 flutes.
- It is also expressed in Kilo Pascal's (kPa).

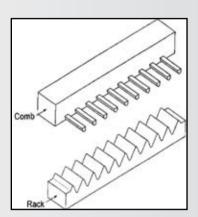




F C T of Board

- Using a particular medium, it is observed that:
- "B" flute has maximum FCT,
- Followed by "C" flute
- And "A" flute has least value of these three flutes.
- To put figures to these FCT values:
- If "B" flute strength is taken as 100%
- Then, "C" flute has strength between 78% to 82%
- And, "A" flute has strength between 61% to 65%





Optimization of material for • FCT

- If you need FCT value of 200 kPa, the corrugating medium should have a CMT value of 160 kPa.
- There are two options,
- We can use.
- Use normal Kraft paper of 180 GSM / 28 BF which as CMT value of 160 kPa.
- Or use semi chemical medium of 127 GSM which has same CMT value

Cost

- Cost per square meter for 180
 GSM paper in B flute will be Rs.
 7.55
- Paper cost considered is Rs.
 31.00
- Cost per square meter for 127 GSM semi chemical fluting will be Rs. 6.50
- Paper cost considered is Rs.
 41.00
- A saving of Rs. 1.05 per square meter.
- It makes better sense to use semi chemical medium instead of test liner in fluting.

New developments in flute profile

- Flute profile for shipper cartons are classified as "B" flute or "C" flute or "A" flute based on the flute height and flute pitch.
- The old profiles were either V or U shaped.

- New developments is a combination flute called UV flute, which has best features of V and U flute in corporate into it.
- The parameters determining flute profile are:

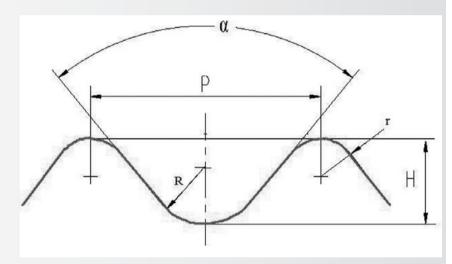
Size of Flutes

Height	No of Flutes /		
(mm)	300 mm		
4.2 – 5.2	30 – 36		
3.2 - 4.2	36 – 44		
2.4 - 3.2	44 – 50		
	(mm) 4.2 – 5.2 3.2 - 4.2		

Shape of Flute

Flute Profile				
Flute height	H (mm)			
Pitch	P (mm)			
Flute tip radius	r (mm)			
Flute root radius	R (mm)			
Tooth flank	α			

Shape of Flute



Optimizing flute profile

- By varying the five parameters we can have various flute profiles.
- We can increase the flute height at the same time we can reduce the take up factor.
- Increasing the flute height will result in increase in compression strength.
- Decreasing the take up factor will reduce paper consumption and thereby the cost.
- However the ECT value of the board will reduce.

How flute profile can help in cost optimization?

Let us consider a 3 ply box of size
 440 x 350 x 280 mm ID

- Paper grade used is 180 GSM of 22 BF in liners and 150 GSM of 20 BF in fluting.
- The impact of flute height and take up factor on compression strength and cost for various flute profile is shown below.

"B" Flute Profile

D Hate Home						
Flute	T.F	ECT in	CS in Kgs	Weight in		
height in		kN/m		grams		
mm						
2.4	1.36	5.04	186	606		
2.6	1.35	5.03	193	604		
2.8	1.34	5.02	200	603		
3.0	1.33	5.00	206	601		
3.2	1.32	4.99	213	599		

"A" Flute Profile

Flute	T.F	ECT in	CS in Kgs	Weight in
height in		kN/m		grams
mm				
4.2	1.55	5.27	257	636
4.4	1.53	5.25	262	633
4.6	1.51	5.22	267	630
4.8	1.48	5.19	271	625
5.0	1.46	5.16	275	622

"C" Flute Profile

Flute	T.F	ECT in	CS in Kgs	Weight in
height in		kN/m		grams
mm				
3.4	1.45	5.15	226	620
3.6	1.44	5.14	232	619
3.8	1.43	5.13	238	617
4.0	1.42	5.11	244	616
4.2	1.41	5.10	249	614

Conclusion

- We can optimize the performance parameters at a reduced cost.
- Using high RCT paper and high CMT paper we can reduce the cost.
- By proper selection of flute profile we can increase the compression strength up to 14% with a marginal drop in paper consumption.

Thank you - Have a nice a day

Ram Kumar Sunkara

S. S. Consultants

E-mail: ramkumarsunkara@hotmail.com

Phone: +91 98 200 86841

OBITUARY



Sri Chandra Prakash Jain, popularly known as C.P. Jain, Managing Director of Paper Combines (India), Ernakulam demised recently due to a sudden heart attack. He was the founder President of the Kerala Paper Traders' Association and the President of the Kerala Chamber of Commerce and Industry during 2004-2005. He was also holding several industrial, social, charitable and cultural organizations. He was a well wisher and a good

supporter of Kerala Corrugated Box Manufacturers Association. The President and members of KeCBMA express its deep felt condolence on his departure. May his soul rest in peace.



42nd Conference of Federation of Corrugated Box Manufacturers of India

CORPAK INDIA2013

The Leela Palace, Chennai - India • 13, 14, 15 - December - 2013

10th July, 2013

Dear Friend.

It gives me great pleasure to invite you to participate in the forthcoming 42nd FCBM Conference – CORPAK INDIA 2013, which is to be held at "THE LEELA PALACE, CHENNAI, during 13th -15th DECEMBER 2013"

The theme of the conference 'INNOVATING INTO THE FUTURE' reflects the need for innovation to sustain and grow in the present market scenario - which has become globally competitive.

We have planned thought provoking Technical Sessions revolving around the conference theme. Use of innovative materials, designs, technologies and marketing methods will help you make a mark in this growing scenario.

Experts from India and overseas will be there to share their expertise in their respective fields of excellence. On behalf of SICBMA and on my personal behalf, I request you to block these dates and plan your trip to Chennai to give us the pleasure of playing perfect host to you.

Besides brainstorming Technical Sessions, we are planning cultural programs, sightseeing trips etc. to make your stay enjoyable and memorable.

Chennai – the gateway to South India, presents a unique confluence of tradition and modernity with temple goers nestling with jean – clad boys and girls.

The South Indian cuisine and hospitality is surely something you will cherish.

An Exhibition is being organized concurrently with the Conference in the ultra modern air-conditioned hall of the Hotel which will facilitate easy access to participants to visit the Exhibition.

For Exhibitors desirous of displaying / demonstrating heavy machines, an Air-conditioned Hanger is being built adjacent to the conference venue.

The Exhibitors will have a unique opportunity to showcase their products and services to the visitors comprising of corrugated box makers, dealers and consultants, besides large users of corrugated boxes across India.

All these packed in the ambience of the seafront hotel, The Leela Palace, will combine business with pleasure.

This personal letter is an advance intimation to block your dates for travel plans.

A detailed brochure with all registration forms will be sent to you shortly.

We eagerly look forward to your participation.

With best regards,

Anil Kumar Reddy K.

Chairman-CORPAK INDIA 2013



Organisers & Hosts:

South India Corrugated Box Manufacturers' Association

B-28, 6th Floor, P. A. Apartments, 869, E. V. R. Salai, Kilpauk, Chennai - 600 010. INDIA

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ELECTRONIC MONITORING CODE ZONE TO FEATURE NEWEST TECHNOLOGIES AT SINOFOLDINGCARTON 2013

The State Food & Drug Administration (FDA) recently announced its intention begin electronically monitoring imported drugs.

According to a notice on the State FDA's website, foreign drug pharmaceutical factories, together with the corresponding production and packaging plants named on the imported drug registration certificate, should be added to China's drug electronic monitoring network. This means each box of imported drugs will be labeled with an electronic monitoring code.

According to the 12th fiveyear plan for national drug safety, all drugs and drug manufacturing processes should be monitored electronically by the end of 2015. By July 2012, the State FDA had applied electronic monitoring to basic drugs. It has now begun to do the same for drug manufacturing.

So far, drugs covered in the nationwide electronic monitoring network include 60,000 approvals - 34% of the total. About 3,300 pharmaceutical factories, 68% of the national total, have access to the network. Thanks to the push to meet the requirements of uniform labels for drug electronic monitoring experiencing greater demand from packaging and printing companies than ever before. Hence calls for drug factories to meet and talk to printing companies.

leading commercial As platform for electronic monitoring codes in China, SinoFoldingCarton 2013 will give exhibitors great opportunities to meet buyers with high purchasing ability and intent.

The exhibition will be held at Guangdong Modern International Exhibition Center from August 21 to August 23 in Houjie, Dongguan. China's highest profile printing companies specializing in electronic monitoring codes will all be featured at the event.

Reed Exhibitions, organizers of SinoFoldingCarton 2013, will feature a special Electronic Monitoring Code Zone on-site to analyze policies and market information related to the industry. The zone will display inkjet printing equipment and technologies applied to drug boxes and packages and offer companies looking to newly enter the drug packaging business an opportunity to learn about the prospects and challenges in this market.

The Electronic Monitoring Code codes, drug manufacturers are Zone will span 1,000 sgm. It will offer many practical and technical insights, as well as business opportunities for printing factories that provide services for industries such as cosmetics, food, cigarettes, wine and home appliances to enter a new industry.

> the Electronic To date. Monitoring Code Zone has attracted high number of local and international companies, including Kodak, Shanghai Dragon, Win.Win Digital Security, Beijing Xinjianlong, Beijing Shield, Hangzhou Kangdexin, Shanghai Uni-M Tech, Shanghai Sonic Jet, Harbin Xingi, Shanhe and Shanghai Full Sources Automatic Equipment. These businesses will display their latest electronic monitoring code technology and solutions.

> Chen Han. General Sales Manager of Shanghai Dragon Printing Machinery, spoke highly of SinoFoldingCarton 2012. At last year's show, Mr. Chen found that the Electronic Monitoring Code Zone brought together many key players in the electronic monitoring code field and that these companies brought with them a host of good ideas and practicable solutions. The

visitors were very interested in the equipment on display and he believed that this was indicative of a prosperous future for the electronic monitoring code market.

Tan Qiaojun, an esteemed Consultant from the Printing & Printing Equipment Industries Association of China (PPEIAC), has visited the Electronic Monitoring Code Zone three times. Mr. Tan felt that the overall effect of the 2012 feature was excellent due to the fact that it attracted local and international buyers, as well as high profile companies from across the industry. He was delighted to learn that Reed would again host an Electronic Monitoring Code Zone this year.

Collocated with SinoFoldingCarton 2012, the Electronic Monitoring Code Zone will highlight the application of electronic monitoring codes to companies from across the country. The stage is set for this feature to again be one of the highlights of SinoFoldingCarton.

For more information, please visit the official SinoCorrugated 2013 website: www.sino-foldingcarton. com.

About Reed Exhibitions Greater China

Reed Exhibitions Greater China is a part of the world's leading event organizer with 500 events in 42 countries: Reed Exhibitions. Reed Exhibitions' portfolio of

the 44 industry sectors across the Americas, Europe, the Middle East and Asia Pacific. Reed Exhibitions has 3,000 employees worldwide. In 2012, Reed Exhibitions brought together over seven million event to participants from around the world, generating billions of dollars in business for its customers. The group total revenues for the year 2013 were £854 million.

For more information please visit http://www.reedexpo.com.cn.

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THE SOUTH INDIA CORRUGATED BOX MANUFACTURERS' ASSOCIATION

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APPFAL

All Valued Customers of Corrugated Paper Boxes

While we express our gratitude for all the support and courtesy that you are extending to our member corrugators, we wish to bring to your kind notice that Kraft paper, the industry's major raw material, has been subjected to multiple and prohibitive increases for the last few months. The main reason for the exorbitant increase, according to paper mills, is the massive depreciation in Indian Rupee in the world market. To aggravate the situation

further, prices of other inputs like Adhesive, stitching wire, labour, fuel charges, energy charges etc. have also gone up considerably. The cumulative impact of all these increases (which works out to around 15%) has very much adversely affected the working of our industry.

Please note that such frequent and exorbitant price increase in kraft paper upsets the total cost factor of the cartons and corrugators are finding it very difficult to meet their commitments for contract orders.

Under the above circumstances, in order to cope up with the present predicament, we humbly appeal to the valuable customers to extend their valuable support to the suppliers by way of allowing a minimum of 15% price increase on corrugated boxes. This increase may be made applicable to the existing contracts also.

We do hope you will understand our alarming situation and extend your full co-operation to the corrugated box suppliers.

Thanking you in advance for your support.

Xavier Jose

President

THE ECONOMIC TIMES

Thursday | 5 September 2013

RISING INPUT COSTS CRIPPLE CORRUGATED BOX INDUSTRY

Kraft Paper, the industry's major raw material, has been subjected to multiple and prohibitive increases. The mills have cited the massive depreciation in Indian Rupees as the prime trigger for such hikes. The extreme volatility on the paper price front has impacted smooth functioning of all the units.

On one side the paper mills are raising prices relentlessly and on the other side all our critical inputs, like Starch, Wire, Fuel, Diesel, Manpower costs etc. are climbing swiftly.

This industry, primarily, operating in the small and medium sector, is currently reeling under tremendous cost pressures and its very survival is at stake. The cumulative impact of hike in all input costs comes to 15%.

Corrugated box industry has been an integral part of the Indian growth story. Almost the entire common man's basket of essential goods need Corrugated Boxes for its' packaging. Besides this industry promotes and protects the environment and is totally eco-friendly.

We appeal to our esteemed clients and end-users for their support and cooperation by granting and appropriate increase in the cost of Corrugated Boxes to avert the closure of the units, which is imminent on account of huge cash losses. Immediate action by all stakeholders of this important Industry would help to avoid any disruption in supply chain.





FEDERATION OF CORRUGATED BOX MANUFACTURES OF INDIA

No. 138, Mittal Industrial Estate, No. 3, Mr. Vasanji Road, Andheri (East Mumbai – 400 059, Ph : 022 28500687

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The National Apex Body of the Corrugated Packaging Industry with 12 Regional Associations & 2200 Members.



Established in 2011, XO Pack Pvt Ltd is engaged in manufacture and supply of Corrugated Cartons and other packaging solutions. As one of the fastest growing corrugated carton manufacturers in India, it is the first plant in Kerala to manufacture fully automatic 5ply Board and Boxes. Our current production capacity exceeds 50 MTPD of 3/5/7 ply cartons. Equipped with the latest technology & streamlined processes, the production facility has the capacity to meet the growing requirements of various industries. Industry experts from the Corrugated Manufacturing Industry form the core team, enabling the Company to aim to be amongst the leading manufacturers and exporters of Corrugated Packaging Cartons and Corrugated Packaging Boxes.

XO Pack is a brainchild of its promoters who have vast experience in the paper and paper related industry. The promoters of XO Pack have a very futuristic vision for the company. They are ably supported by a highly skilled and experienced team that leads the way ahead.

XO Pack had their inaugural open house and live demo of their complete range of high speed machineries at their premises at Cochin Special Economic Zone, Kakkanad on 19 August 2013 and was attended by large number of professionals from the Industry in and around Kerala.





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THE IMPACT OF ON-DEMAND PRINTING ON PRODUCTIVITY AND PRODUCTION COST IN A BOX PLANT

Talking about production equipment that has still to be built sounds futuristic. However, this is how changes start- it is all about finding new ways to improve what we are doing. We are faced with two questions: Why are we doing what we are doing and why are we doing it the way we are doing it?



Wilbert Streefland Technology Coaching BvbA

Although the equipment discussed may only be available 'on paper' the data used in this article is real -so is the potential for improvement.

What is needed is vision to make it happen. Ondemand

printing equipment that provides an advant age could be available soon.

The problem

Today, all boxmakers are under pressure from their customers to reduce prices yet keep the highest quality. Often, the boxmaker passes the ball to his raw material suppliers but there is a limit to everything- or is there still room for improvement? If cost reduction exercises result in making people redundant and putting suppliers under pressure to reduce their prices then good luck, but this strategy will backfire on day and that day may be soon. Mast likely, it will result in you having very few suppliers left to choose from. They will confront you with price increases. Also, your cut back in personnel might result in your prople lacking the skill or time to run your operation cost efficiently.

Is there room for improvement? The answer is yes, but then one has to look to new technology or production techniques. Your current equipment still has a value and it is still working. So what do you need to do in order to take the step forward that allows you to offer your customer that bit extra for which he is prepared to pay an additional price- but at the same time giving you a better balance in your factory.

In this article we will look at ondemand printing on corrugated board and how you can balance your factory to improve productivity and reduce your total operational costs, add value to your products using digital print and reduce the cost of operating your existing conventional equipment. This will only happen if you have both systems in place - conventional flexo print and ondemand degital print. It also means that you need to know which process to choose for each individual order.

Production data evaluation

The biggest challenge when writing an article is having data available that provides evidence. This is even more difficult when writing an article based on production data. The following information is a representation of how the production order distribution of a corrugated plant might look. I do not claim that on-demand printing equipment

the order data of individual box plants looks like my representation. The order data presented in this article is of an average box plant. It is based on one year's production.

This box plant produced 45 million sqm of corrugated board in a year representiong 12,900 orders, Fig 1 shows the order distrebution histogram, with an interval of order distribution histogram, with an interval of order sizes of 1,000sqm, colour coded for the type of outer liner used. It shows that the average order size is 3,500 sgm but this value is not very meaningful.

The most common order size is between 0 and 1000 sgm. This result will not differ form any corgated production plants.

If we do an evaluation on cost reduction for on-demand printing then we need to look at the distribution of the orders that were printed. In this case 10,465 orders with print(1 or more colour) were recorded-5,160 using a white liner, 845 using mottled and 4,460 using a bown liner.

Note in Fig 2 that the highest order frequency is below 1,000sqm.

Normal converting machines can handle board with a width of 1.6 m or larger. It is possible to build with a width of 1.8 m but this would not be very cost effective. If you turn the board 90 degee for on-demand printing then you can set the height of the board as the limiting factor for printing. So let's just take the production data for white top liner board and a board height of 1,000 mm of less (maximum distance between the slitting knives on the corrugater is 1,000 mm). The result is shown in Fig3. The highest order frequency is still below 1,000 sgm (about 2250 orders). In total there are 4870 orders on white top board. So with the previous graph showing 5160 orders on white top board, there are only 290 orders that could not be digitally printed due to the board height restriction to 1.000 mm.

Digital print Technology we all have a printer connected to our computer and that printer prints ondemand. For home or office use, we utilise LaserJet and Inkjet printers. If you want to print on corrugated board, for various reasons, the LaserJet printer creates problems. The biggest problem is the bending of the substrate when passing it through the printer. This might be resolved in the future. At the moment, all ondemand printers are based on inkjet technology. This technology falls into two groups:

- Drop on-demand inkjet;
- Continueous inkjet;

The drop on -demand systems are mostly of an average box plant. It is based on one year's production. This box plant produced 45 million sqm of corrugated board in a year representing 12,900 orders. Fig 1 shows Getting Technical INTERNAIONAL PAPER BOARD INDUSTRY JANUARY 2006 39 FIG 1 FIG 2 FIG 3 Getting Technical INTERNATIONAL PAPER

BOARD INDUSTRY JANUARY 2006 41

Wilbert Streefland can be contacted at: wilbert@tcbvba.be based on scanning heads. The scanning head makes the system slow. Every printed dots in a row has its "own" nozzle. The number of dots to be printed requirs a large number of nozzles that all have to work, or it might result in streaks if one nozzle is blocked. The manufacturers of these printers and heads are working on developing technology to resolve the problem (this will also reduce the productivity). The inks used are mostly UV or oil based. If non UV inks are used then often pre-coating of the substrate is needed. There are several systems on the market today, mostly used for printing displays.

Continuous inkiet systems are known for printing labels, envelopes or marking products, They mostly have a narrow print width but print very fast. The key difference is that a continuous stream of very small dots is ejected form the nozzles and that the printing drops are deflected. It is possible to deflect the drops to various positions on the substrate so that one nozzles can print a certain width and not just one dot. The other advantage is that any ink can be used and less nozzles are needed for covering the full width of the machine. In advanced continuous inkjet technologies using heads with multiple nozzles arrays, each of these nozzles can be controlled accurately to cover a large width. Allowing the nozzles to overlap the width they print provides a guarantee that streaks will not appear on the print. Due to its continuous jetting mode of operation, the chances for nozzle clogging are almost non-existent and if occurring can be easily handled during the warm up of the system.

The only disadvantage might be the recirculation of the ink, however that problem is relatively straightforward and good solutions have already been established. The distance of the head to the substrate is significantly larger than for drop ondemand. This has a positive impact on sensitivity to dust.

Cost argument

In this case, we will focus on the cost for continuous inkjet printing with the following specifications:

Resolution: 300-400 dpi;
Printing width: 1,000mm;
Ink: water based;
Production speed: 7-14 m/min

(about 1000 sqm/hour)

The following data for conventional flexo printing is used for the cost comparison:

Total print plate cost

for this plant : 500,000 ? /Year cost per plate : 163? /year ink cost : 315,000kg/ Year _Ink consumption : 125,000kg / Year _Total ink loss : 32,500kg / Year _Ink loading : 2.5gsm _Flexo ink cost : 0.0025 ? /g

Labour cost flexo

set-up : 100 ? / hour _Board value : 0.5 ? / sqm

Board loss during

flexo set-up : 50 Sheets

On-demand ink cost: 0.0450 ? /g

All this information was entered in a spreadsheet including the order / production data. The order production data also contained information about the printed area and the number of colours used.

The general cost difference between on-demand printing and flexo printing is that the ink is much more ixpensive for on-demand printing, but then there are no printing plates needed. The set-up time is zero and there will be no board or ink waste, thus the first sheet can go to the customer.

The real problem today is the short orders. Therefore, let us only use on-demand printing for orders of less than 1,000 sqm. In this case 2,250 orders (nearly 50 per cent of all orders printed on white top board) but less than 3 per cent(1million sgm) of the total board area produced. Producing this on-demand would result in an estimated cost reduction of 21,5000 euro/ year (all costs included). Remember this is assuming that the conventional equipment will be used for longer order runs. The capacity increase of tha conventional printing equipment will be used for longer order runs. The capacity increase of the conventional printing equipment

will be close to 20 per cent because of few set-ups and increased run time. The sales person now has to find more customers with long orders!

My conclusion of this evaluation is that there is room for improvement by introducing new technology alongside current equipment. The current equipment is not obsolete, but should be used for what it was designed for_and that is running long orders. Corrugated boxmakers will also have the opportunity to ask a premium for _and that is running long orders. Corrugated boxmakers will also have the opportuninty for cost reduction might be to operate 2 shifts instead of 3 on conventional equipment.

Recommendation

_Look at your order size as a result of moving short o distribution and forget about average runs to the on-demand printer. order length.

- _ Short orders are your problem, because most equipment is not designed to efficiently run short orders. It does a good job running long orders.
- _ Consider carefully your sales strategy for your on-demand printing facility.

_New technology can be used to make new products and open new markets which should be its first priority. But the free capacity can be used to solve production problems on current production equipment which might well pay for the investment.

onal __In addition tofinding new orders for on-demand printion, find longer run work to fill the free capacity on your current equipment size as a result of moving short order rage runs to the on-demand printer.



CONCEPTS AND TECHNOLOGY FOR THE NEXT GENERATION - A EUROPEAN PERSPECTIVE

Teamwork is equally important to business success. Are Indians natural team players? In sport, you are great at cricket, but that is an individual as well as a team sport. You have provided the world with brilliant golf, tennis, squash and Formula 1 stars, but still have something to prove in football and other full team sports, though field hockey is an exception where you have the best historic record in the Olympics. So maybe my question is unjustified. But it is always healthy to open up challenges and engage the reader.

How about business? Well in Europe, we can see what Tata has done with the steel industry and the automotive business through Jaguar Land Rover. They are provideng new jobs and industrial development in europe. This is team work led by notable entrepreneurs. The superb regeneration and growth of Mumbai itself, where this conference is being held, appropriately in the Renaissance Hotel is witness to team work. So you can do it when you want to, but will you can do it in the corrugated industry, which is still heavily fragmented and dispersed? Will you support your Associaltions so they can be taken seriously in representaions government and regulatory bodies, in ensuring quality standards, a degree of commercial solidarity in selling on value rather than price and offering a focus for teamwork? Will you take part and give the Industry Associations strength of know- how and capability? You do not have to sacrifice commercial confidences, not do you need an added layer of bureaucracy for its own sake, but an active and supportive tool that can provide a valuable guide to the market, prospects and benchmark performance as well as the strength of united representation to those in government whose practices and policies may be limiting your potential and that of the industies you will chug along. It would be helpful to include the paper industry in the 'team', though this may involve difficulties.

Of cource the infrastructure improvements taking place in the country will help connect areas better within India to the benefit of the domestic market, but I say yet again from my external perspective that you could play a most important role in helping establish 'Brand India'. Both primary and transit packaging should be of a quality and appearence to protect and promote its contents, conveying the quality image of Indian produce and products to the world outside. Corrugated board hasbeen proven as the best and most costeffective material for doing this and it has the added advantage of being fully recyclable. I cannot feel embarrassed to repeat this message, because it would be great to see some signs of its acceptance.

The successes of some major industries of India are beyond question. But many other businesses, including the paper and corrugated industry remain lodged in a totally different league. Maybe part of the reason is the hage size of the country and its domestic market, whith is



Tony Pinnington "Longview consultant"

providing growth and a secure sense of self-sufficiency. This is limiting the temendous global potential of the Indian economy. Yes, your mation is recognised as a major player in many fields and is the most populous democracy on earth. It is also among the largest producer worldwide of many commodities such as fruit, milk, vegetables, cut flowers, cotton textiles......

This is in spite of the fact that about one third of all produce is lost through damage or rot between harvest and delivery. That really is appalling. The additional growth potential of the export markets for such things is enormous, if only there was a concerted effort by government and industry to grasp the opportunity to encourage investment in packaging distribution. The teamwork is not yet happening. As always in India, the reasons for this are not simple, but they really do need to be addressed. Teamwork is a question of culture and it can take time, even generations to develop this culture. Education, skills and numbers are not an inhibiting factor, so what is

the problem?

A sense of urgency seems lacking, perhaps largely because of the copious availability of lay cost labour (which woll not be the case forever) and the sheer size of the domestic market. An independent box maker in the centre of the country is not going to worry about the need to grew exports. A few of that, but he has enough production and competition problems to fill his day. Improvement will become necessary as labour costs and expections rise and customers'demands grow improved quality, reliability consistency of packaging. and The corrugated industry will undergo huge both structurally and technically. The only question is when. The inevitable growth of Supermarkets will accelerate this process. Companies need to be ready for this and 'ride the wave' or be left behind. Consolidation of producers will lead to more productve operations and wider, faster machinery will be installed so that fewer machines in fewer factories will meet market needs. True, there will be good growth in the market, but pressure will be applied to performance, quality and productivity and these must be met by new technology and improved material and operation. I winder if the sleeping giant is in danger of over-sleeping. Surely you are aware of stirrings form overseas companies already?

You are increasingly using imported papers, which opens the door to faster, wider corrugators. This tendency is leading to greater interest by foreign company investment in the paper industry here, which form experience

elsewhere. Soon leads to their involvement also in the box industry. Rengo of Japan and SCG of Thailand have recently teamed up to become major players in the fast-growing Vietnamese corrugated sector and are eyeing the Indian market further to the West, no doubt with ambitious intentions. International Paper is so far looking just at the paper business here, but has impressive credentials elsewhere in corrugated as well. MeadWestvaco(MWV) and OJI paper are also growing their interest, while Stora Enso have acquired an existing company, So domestic players need to sharpen their acts to prepare soon to battle to hold on to a viable market share and run with these companies. Otherwise they will have to settle for smaller lacal niche markets. For sure there is tremendous growth potential in India, but the formidable capacity of modern machines is far beyond anything currently even being imagines here.

That os a long but necessary prelude to the subject of Technology. Due to the fragmented mature of the industry at present, investment is limited which lowers the ambition levels. I joined the industry in Europe in the nineteen sixties when the operating technology was about the same level as it is in India today. It had not changed much since the nineteen thirties. but the past fifty years have seen enormous advances in mechanical, electrical, electronic and control technologies. They are there on the market, well used and proven and available to you. Corrugators are much wider, faster and run many more flute forms with recycled and much lighter papers while still maintaining high board performance levels. Today's machines are also easier to operate with far less people.

There is no daubt your industry would find great benefits from similar machinery, but initially may find some difficulties in making such a large step forward in capital cost, operation and maintenance. That is probably one of the reasons you are tending to look eastwards for higher specification machines, plus there is the question of pricing. Some European manufacturers have put alot of development investment in recently to address your needs by producing 'interim'specification ranges of corrugator with these developments you now have the flexibility to up grade your existing machines in affordable steps. They are also investing in local competent service support for whatever technology you install.

If you analyse your key limitations to cost effective high productivity, for most of you it will be waste, stoppages, slow running and narrow width. You probably also have board quality issues arising from some of these as well as form non-precise single facer settings and glue application at both single facer and glue machine; also, perhaps crushing on the bridge and through the double facer and dry end.

One of the principal causes of lost time and production and also of waste is the stop-start operation and failure to maintain more or less continuous running speeds through reel changes and order changse. There is no reason for accepting any of this now that bridge level control, web tension control, reliable high speed splicets and continuous run dry ends are all on the market. These relatively low cost enhancements are among the first moves in a step-by-step upgrade of quite low specification corrugators

and they are compatible with any further steps you may want to add, so there is no waste of investment. One tip here is to install any new elements in a wider width to allow full widening of the machine line in future.

For those wanting to go for a more substantial partial or for a complete corrugater replecement. it really is wirth looking at the best technology/ service offering. Service becomes more important. Again, I shall refer to the machines I know and respect. There is a wide choice on the market and I would only remind you thet as in most things, lowest price is not normally best value. A good corrugator will last at least twenty years and the more robustly built ones will cost far less to maintain and run throughout their lives. They should also be of modular design to accept upgrading as you need higher performance from the same base machine over its lifetime.

European suppliers have the benefits of decades of experience running recycled materials with good crrugating roll desing and life, operator-friendly controls and selfadjusting precision elements where they affect board quality as well as well trained and experinced service personnel. BHS dates back hundreds of years as a minerals and metalworking company in Germany and came into the corrugated indusrty in the late 1950s, introducing their first full line corrugator in 1961. Soon after that they introduced the industry's first automatic set-up slitter scorer, followed by other innovations that revolutionised the industry from the late sixties. They have became a global leader in the field and have a reputation to protect while

maintaining a highly competitive position.

Theyhave applied their know-how to developing two corrugator lines for the Asian market, the Steady Line (up to 2000m width) and the Qyality Line (2500m), meeting the local materials, operating and maintenance skill levels and your customer requirments. The steady Line is manufactured in their factory in China.

The Steady Line is made in widths from 1800 to 2500mm and has the features to enable it to run at steady speeds through paper and order changes up to 180m/min. It is designed with state-of -the-art technology to use minumum heat and electrical energy and run Indian domestic paper qualities optimally. Aimed to be the most affordable bridge between the current technology operating in India and that required for the future, it incorporates many self-adjusting gap and pressure settings to reduce operator workload and offer the opportunity of reducing the mumber of operators.

The Quality line is wider and faster, with speeds up to 250m/ min and brigs the buyer even closer to the latest global standards. Both lines include performance high splicers, bridge level control, precision rolls, gap, pressure and tension controls, continuous run dry end and automatic stackers. When considering the possibilities of any machine, a balance has to be struck in consideration of raw materials. Paper quality standards are limited when it comes to domestic supply. "You cannot make a silk purse from a sow's ear" Equally, the ultimate quality of board bears a relationship with paper

quality. However, corrugating roll and flute from design are crucial to board quality, running speed and life expectancy of the rolls themselves, which are not cheap components. BHS regard corrugating rolls as such an important part of the overall machine performance that they have also establishec a roll manufacturing facility in China from which to supply the Asian market, including other makes of corrugator, THey apply a hard tungsten carbide coating polished for lower paper tension, longer life and lower indentation form hard inclusions in the paper and can customise the flute porfile.

Finally, when considering new machinery, whether individual machines, or part or full corrugator lines, locally based service support can be a great comfort and a clear indication of a supplier's commitment. This should include a competent training programme for the operting, supervisory and maintenace staff to help to help obtain a smooth start-up followed by maximum performance and uptime from the equipment.

The time is fast approaching to awake, equip and form the team for the future, O Sleeping Giant!

Mr. Tony pinnigton of 'Longview consultants' is a corrugated Industry consultant based in UK.

He is source of abundant information and be has been contributing since a long time to various industy magazines including the corrugator the success of this magazine's editorial matter.

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This month let us discuss about recent Govt Orders affecting SME's in the Industrial Development Plots, Kerala.

LAND TRANSFER ISSUE: What's this Issue?

The units in Industrial Development Areas were not allowed to transfer the industry directly when the unit holder stops its operation due to many reasons like sickness of industry or no inheritance available to manage or promoter wants to switch over to another business activity or wants to retire himself and so on. In such cases, the unit holder had to surrender the land to Govt who in turn will allot to new applicants.

It is quite natural that no promoter will be so naïve as to surrender his hard earned industrial unit back to Govt and go home bare-handed carrying all liabilities of debts and dues burdened over his head. Therefore, when the situation arises for a transfer, the promoter finds a buyer on mutually agreed upon terms. Then promoters admit buyer(s) as new Partner(s) and sellers retire from Partnership. This is legally right as per Indian Partnership Act . In the case of Companies, buyers are admitted as new Directors and sellers retire, accepting their dues. This is also right as per Indian Companies Act. The Firm / Company stays as a legal entity with new Partners / Directors and assets and liabilities of the business rest with new members. The name of the unit or nature of business can be changed subsequently if the new promoters desire so.

This way, the transfer of industrial unit is effected through a hide and seek method which is legally right.

THEN WHY NOT REGULARISE THE LEGAL CONTRADICTION TRANSACTION?

Industries and Commerce Sri. P.H. Kurian Act) / Banks under Securitization Act u/

CAPITAL COLUMN

Dept) took a practical and pro-active decision to regularize the transactions. His Circular No. ID5/25235/03 dt 25/10/2004 resolved the issue by allowing transfer of industrial units by DIC, based on the request of unit holders . The transfer terms were jointly negotiated by the seller and the buyer. The proceeds of the transfer will go entirely to the sellers. This was a boon to the unit holders to take an honourable exit, by settling the possible dues with Creditors, and other Govt. Agencies like KSEB, VAT, PF, ESI, Local Bodies etc apart from settling employees

Many sick and running industries transferred the units to prospective buyers at commercial rate and thus so many new units started growing up. It was a win-win situation to the retiring entrepreneur and new entrant.

SO FAR SO GOOD, THEN WHAT **HAPPENED?**

On 1st October 2011, suddenly things went upside down. In Ernakulam District, M/s Maruthi Foams wanted to transfer the unit to M/s Jyothi Chemicals and the transfer request was referred to Govt. (for no reason). The Govt, after detailed examinations of all pros and cons, in typical bureaucratic style turned down the request vide order dated 1-10-2011 on the plea that 'industrial land allotted to one unit for a particular purpose, cannot be used for any other purpose, if the allot tee does not use it for the original purpose. And such land should be returned to the Land Bank of Govt. ' That was the order, typically bureaucratic style, unmindful of industrial promotion.

What is Land Bank of the Govt.? Where it is? What's the fate of the land attached to the Land Bank?. What's the fate of the unit holder who could not do business in the land purchased by him from Govt. ? And so on. No satisfactory explanation from Govt.

However, industrial units taken In this context, then Director of over by KFC under section 29 (of SFC I.A.S (presently Principal Secretary, I.T. section 12 (13) of SRESI Act 2002 / any

other Institutions under Debt Recovery Tribunal can sell these units to realize the debt.

That means, an industrial land purchased outright from Govt for the purpose of setting up industry, after having set-up the unit, can not be sold (by the promoter)to another person for the same / other industrial activity for clearing his dues or liabilities. But, the financial institution can do this kind of take over and sale for recovering their dues. What a contradiction?

TWO YEARS, UNCERTAINTY:

After series of representations, finally, the much awaited Land Transfer Order was issued by Govt on 10/06/2013, restoring the right to mortgage the Industrial Land and the right to transfer, but with a HITCH. With the hitch, the Govt. Order is as good as no good. The transfer of land is allowed only on lease basis for a period of 30 years.

UNCERTAINTY CONTINUES:

There are many issues un answered after this Govt. Order:

What about the land purchased on outright payment basis and received entitlement?.

Whether this order is retrospective from a particular date or prospective from the date of Order.

How could the outright purchased land be again allotted on lease basis. Is it not an encroachment by the Department on the ownership rights of a promoter for the 'mistake' of choosing industrial plot for the business activity.

Now the file in red tape moves in the corridors of Secretariat from Industries Dept, Revenue Dept, Law Dept with all bureaucratic hurdles entangled further at a time when all other States take positive steps to promote industries in Single Window Approach. We too have the Single Window, but remains closed always.

The affected industries are planning to approach judiciary for restoring their right on the land purchased from Government . Let's wait and see.

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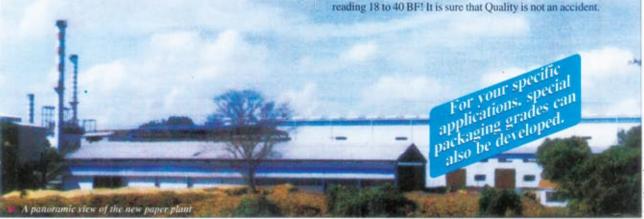
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