



MATRIX

July 2006

A PUBLICATION OF **THE SANMAR GROUP**

Sanmar Engineering Corporation turns 30

Sanmar Holdings Ltd

Chemplast Sanmar Ltd

Cabot Sanmar Ltd

Sanmar Shipping Ltd

Sanmar Speciality Chemicals Ltd

Performance Chemicals

Intec Polymers

Active Pharmaceutical Ingredients

ProCitius Research

Bangalore Genei

Sanmar Engineering Corporation Ltd

Asco (India) Ltd

BS&B Safety Systems (India) Ltd

Fisher Sanmar Ltd

Flowserve Sanmar Ltd

Sanmar Engineering Services Ltd

Sanmar Foundries Ltd

Tyco Sanmar Ltd

Vishay Sanmar Ltd

Xomox Sanmar Ltd



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A DECADE OF PARTNERSHIP IN PROGRESS

Partners in the process of Excellence

METALIC ASIA PTE. LTD.
INAUGURATION
28 JUNE 1982

FISHER-KOMOX (INDIA) LTD
CONTROL VALVE FACILITY
FOUNDATION STONE LAY BY
MR. J.J. ADORJAN
PRESIDENT, EMERSON ELECTRIC CO., U.S.A.
ON 3rd FEBRUARY 1984

Sanmar Engineering Corporation turns 30

The journey of Sanmar Engineering Corporation (SEC) began 30 years ago as a response to a felt need for high quality precision mechanical seals on the part of Chemplast. Thus was born Durametallic India Limited, Sanmar's first joint venture, now called Flowserve Sanmar Limited.

Following the success of this partnership, the group entered into many more joint ventures, identifying the right product for the right needs and bringing superior technology to India by partnering with world leaders. The products manufactured at SEC are not for large-scale consumption but custom-made to meet specific applications in each industry. Well-equipped machine shops with computer aided, numerically controlled machines, ensure that the products manufactured at SEC are identical to those available at any of the JV partners' facilities anywhere in the world. High quality castings made available by SEC's state-of-the-art foundry also contribute to the competitive edge of SEC's and its joint venture partners' product range.

Today, SEC is one of the most diversified groups in the process equipment market offering total engineering solutions. The greatest challenge for SEC will be to anticipate the level of service customers expect and quickly meet their demands. With customers spread all over the world, SEC is focused on catering to them on time through excellence in management and manufacturing processes, ensuring high quality products and efficient services.

Then...



Durametallic India...

...and now



...is Flowserve Sanmar today.

Milestones

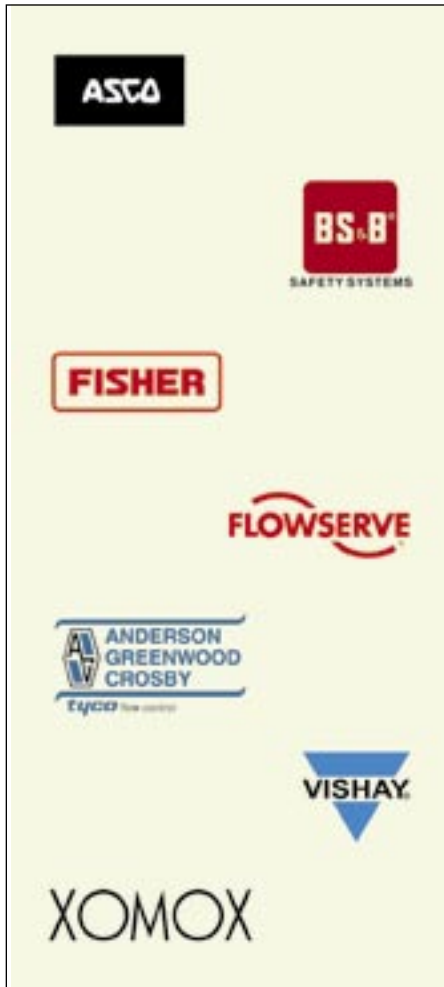
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- 1976 - Formation of Durametalllic India; SEC begins operations at Karapakkam, Chennai
- 1981 - BS&B Safety Systems and Sanmar Weighing Systems commence commercial operations
- 1983 - SEC operations extended to Viralimalai Complex, near Trichy— Xomox Valves inaugurated
- 1984 - FMC Sanmar commences commercial production of Smith Meters and Crosby Safety Relief Valves
- 1989 - Sensortronics Sanmar and Asco (India) commence operations
- 1994 - Xomox adds Fisher Control Valves to its range and the company changes name to Fisher – Xomox to reflect this
- 1996 - Sanmar Industrial Systems is formed out of an internal restructuring of the group's presence in the electronics business
- 1997 - Sanmar Alloy Castings establishes itself as a major supplier of castings
- 1998 - Sanmar-PTI Filters commences commercial production
- 1999 - To reflect the world wide restructuring of operations, the existing operations of Crosby in FMC Sanmar are separated out as Tyco Sanmar
- 2000 - Dedication of the new manufacturing facility of Tyco Sanmar at Viralimalai
- 2001 - Sanmar Engineering Corporation celebrates Silver Jubilee.
- 2001 - Sanmar Alloy Castings commissions the state-of-the-art Investment Castings facility at Viralimalai
- 2001 - Closure of Sanmar-PTI Filters operations
- 2001 - Sanmar Industrial Systems merges with Sanmar Engineering Services
- 2002 - Sensortronics Sanmar begins to operate as a joint venture with Vishay Transducers, pursuant to the acquisition of Sensortronics Inc., USA by Vishay
- 2003 - Demerger of the operations of the Fisher & Xomox divisions of Fisher-Xomox Sanmar, following the restructuring of the operations of the joint venture partners
- 2003 - Merger of Sanmar Alloy Castings with FMC Technologies Sanmar; in-house machining capacity at the Viralimalai complex
- 2003 - Sanmar Alloy Castings Limited name changed to Sanmar Foundries Limited
- 2004-2005 - Sanmar Weighing Systems Limited name changed to Strategic Weighing Systems, a Division of Sanmar Engineering Services Limited
- 2006 - Strategic Weighing Systems divested

Constituents and Products/ Services of SEC

Constituent	JV Partner (Licensor)	Product/Business
Asco (India) Limited	Automatic Switch Company, USA (a subsidiary of Emerson)	Solenoid Valves, Pressure and Temperature Switches, Expansion Valves, <i>General Controls</i> Combustion Products and <i>Joucomatic</i> Pneumatic Products
BS&B Safety Systems (India) Limited	BS&B Safety Systems Inc., USA	Rupture Disks, Explosion Vents and Safety Equipment
Fisher Sanmar Limited — Valve Division —Regulator Division	Fisher Controls International Inc., USA (a subsidiary of Emerson) Fisher Controls International Inc., USA (a subsidiary of Emerson)	Control Valves, Level Transmitters and Desuperheaters Industrial Regulators and LPG Fittings/Valves
FlowsERVE Sanmar Limited Sanmar Engineering Services Limited Sanmar Foundries Limited	FlowsERVE Corporation, USA — —	Mechanical Seals and Accessories Engineering Services Foundry (Sand and Investment Castings) and Machine Shop
Tyco Sanmar Limited	Tyco International Ltd., USA	Safety and Safety Relief Valves
Vishay Sanmar Limited	Vishay Transducers Ltd., USA (a subsidiary of Vishay Measurements Group Inc.)	Load Cells
Xomox Sanmar Limited	Xomox Corporation, USA (a subsidiary of Crane Co.)	PFA/FEP Lined Ball Check Valves, Teflon® Lined Plug Valves, PTFE Sleeved Plug Valves, High Performance Butterfly Valves and Vane Type Actuators



Record year for Sanmar Engineering Corporation



Sanmar Engineering Corporation (SEC) had a record year both in terms of sales and profit and reached several new milestones in the process. The overall sales exceeded Rs 520 crore, Fisher Control Valve Division and Foundry crossed the 100 crore mark in sales. Xomox Sanmar crossed Rs 50 crore by way of orders and Rs 46 crore through sales, Flowserve and Tyco recorded over Rs 75 crore through sales, BS&B Safety Systems (India), Sensortronics Sanmar and Fisher Regulators also recorded a growth of Rs 20 crore in sales. Despite a big shrinkage in petro vending valve sales, Asco (India) recorded a high in sales and explored new opportunities for the future. The year 2005-06 was not only a year of growth for SEC, but also a year of achievements.

- At a strategic level, SEC made investments in capacity addition, divested from non-core areas, created new capabilities in the machine shop, further increased the JV partners' engagement and launched a new foundry project.
- At an operational level, the LEAN initiative began in many businesses, training was offered to people through

over 35 different Six Sigma projects, customer metrics improved and working capital reduced.

- On the people front, besides the planned focus on training at all levels, several new initiatives were undertaken including an organisational review and a Gallup Employee Engagement Survey. The follow up actions being implemented at all levels should lead to a better working environment at SEC.
- SEC is all set to face new challenges in the form of new targets, new expectations, new initiatives and to play new roles. The year has been announced the “**Year of customer delight**”. The intellectual capital at SEC is equipped to make valuable contributions to continued growth and meet bigger challenges with commitment for real “**execution excellence**” in every aspect of its business. The SEC leadership team met recently to make plans for rolling out initiatives, programmes and processes aligned to these two themes in each of its businesses.



BS&B (India) celebrates silver jubilee

Bags Nuclear Power Corporation order

It is the silver jubilee year for BS&B in India. The BS&B (India) team in Mumbai has performed some sterling feats to celebrate the occasion. On 18 March 2006, the Mumbai team completed the processing for the single largest order in the history of BS&B (India), an order for rupture disks from the Nuclear Power Corporation of India Limited (NPCIL). This feat was achieved through sheer determination and perseverance by the team.

When the first quarter of the fiscal year began, the Mumbai unit had slipped from the premier position it had so far enjoyed within BS&B (India) in terms of sales. This was the situation when Mumbai's new team was put in place.

BS&B (India) was pitching for high value orders for rupture disks from NPCIL. This was not a project order but

a Maintenance and Replacement Order (MRO). The team had to go through the acid test of passing through various stages of approvals with NPCIL. As the enquiry was for large rupture disks and it was a high value order, the team had a lot of explaining and convincing to do before bagging the order.

The order is expected to bring about sustained demand for rupture disks from NPCIL and other such plants as well.

Sanmar Weighing Systems divested

Sanmar Engineering Services Limited, (a constituent of Sanmar Engineering Corporation) has sold the Strategic Weighing Systems (SWS) business to the Sudhir Jalan Group from Kolkata.

For SEC this is another step in line with the earlier ones taken to sharpen the focus on its core engineering businesses. The Sudhir Jalan Group is headquartered in Kolkata and occupies a leading position in the businesses of tea, printing inks, agro, software development and real estate.

The Sanmar Group has through its sale agreement ensured a strong commitment from the new owners to the employees of Strategic Weighing Systems – this includes protection of employees' compensation levels, assurance of continuity of service, etc.

Fisher Sanmar & Sanmar Foundries cross Rs 100 crore mark

Fisher Sanmar's control valves division (for order, sales and collection) and Sanmar Foundries have each crossed the Rs 100 crore mark.





Madhuram Narayanan Centre

14 children complete Upanayan Program



A group of children who passed out of MNC.

It was a moment of great achievement coupled with joy for the 14 children of the Madhuram Narayanan Centre for Exceptional Children (MNC) who graduated on 13 April 2006. All the 14 children completed the 'Upanayan', early intervention program at MNC. Of the two groups which graduated, one group of children will continue their education in special schools, while the other will enrol in mainstream institutions. A graduation ceremony was organised at the centre and all the 14 children were felicitated at the function. Over 100 children and their parents were present at the graduation ceremony which coincided with the Tamil New Year's Day celebration at the institution.

Brilliant performance by Sri Sankara Schools' students

Suman Prava Giri State topper in CBSE exam

Sri Sankara Senior Secondary School

At the Senior Secondary examination conducted by



Suman Prava Giri the Central Board of Secondary Education, New Delhi, in March 2006, Suman Prava Giri from the Science stream of Sri Sankara Senior Secondary School, Adyar, stood



Ashwini Subramanian

first in the state scoring 488/500 and Ashwini Subramanian topped the Commerce stream securing 477/500. C Balaji with 469/500 was the school topper in Class X examination.



C Balaji

Sri Sankara Vidyashramam Matriculation Higher Secondary School



R Archana

Vidyashramam Matriculation Higher

Secondary School, Tiruvanmiyur, fared well. The school toppers in Class X were R Archana



S R Kaviya



V Venkatanathan

topper scoring 1173/1200 while Rabecca Roslin scored 1158/1200 to top the Commerce stream.

and S R Kaviya who secured 1033/1100. In the Class XII examination, V Venkatanathan of the Science stream was the



Rabecca Roslin

TAP programme back in full swing

Two TAP (The Aware Professional) programmes were conducted by IMA for Sanmar senior management on 10 March and 21 April 2006.

The March session featured three speakers who provided insights into retirement financing, financial markets and change management.

Retirement Financing - Mukul Asher, Professor, National University of Singapore

The robust growth in the Indian economy has cast an aura of expectancy and hope all around. But going with the current demographic trends will there be a situation when one wonders, where has all the growth gone? Why isn't there an increase in per capita income corresponding to high growth? Asher's presentation covered key issues in retirement financing and enumerated international experiences in this area. He highlighted the course of demographic trends and the need for a rethink of retirement financing schemes.

Construing retirement financing as a long-term financial contract, risk sharing and management becomes very essential. With globalisation, wage compensations have grown complex and it is essential to design retirement schemes with flexibility in altering parameters, ensure professionalism, strong regulations and emphasis on fiduciary responsibility.

Resurgence of Financial Markets & Trends in Regulation - G N Bajpai, Former Chairman, SEBI and LIC of India

As the stock markets rallied and rocketed, the general sceptics held their breath, waiting for an eventual bubble burst. Bajpai's presentation threw light on the strength, size and efficiencies of the Indian financial markets, how it compared with the US and other emerging Asian markets, and the wide range of products currently available at the exchanges. He also highlighted the regulatory trends in the Indian markets, the robustness of the prevalent control mechanisms, corporate compliance measures and systems



Mukul Asher



G N Bajpai



Sanmar senior management at one of the TAP sessions.



Dr S Ramnarayan



Rajeev Dubey



Bhupendra Sharma



Girish Baluja

currently stipulated and observed, and the role played by SEBI in raising the bar in good corporate governance.

Change Management - Dr S Ramnarayan, Professor, Indian School of Business (ISB)

With increasing globalisation corporates are abuzz with change and the need to manage change effectively. Time-tested practices can't be done away with; yet, they have to go through a metamorphosis to be in sync with the current climate. Dr Ramnarayan's presentation covered elements of change management - the drivers of change, challenges of change management, critical aspects of managing change and the leadership attributes required for each of these aspects of change and leadership process drivers.

The April TAP session included three speakers who spoke on optimising human resource potential, managing innovation in the organisation and best practices for manufacturing excellence.

Unleashing the Human Potential: Rajeev Dubey, President (HR & Corporate Services) and Member of Group Management Board, Mahindra & Mahindra

The plots on the path to achieving organisational goals are strategic and diagnostic. Rajeev Dubey's presentation plotted the path to ascertain what we can do to utilise the vast untapped human potential. More than resource planning and operational initiatives, the unused human potential costs the organisation a lot more than we acknowledge. The human source in an organisation has to be ignited to reach its fullest potential and this can be done - only when leaders inculcate the spiritual path of realising the self into their behaviour in the organisation and change the leadership role into one of visionary leaders.

Innovation – no longer a matter of choice: Bhupendra Sharma, Director and Senior Strategic Consultant, Erehwon Innovation Consulting

The audience at the TAP programme sat in rapt attention as Bhupendra Sharma shattered the idea that generating ideas is what innovation is all about. Mapping the ideas generated to the strike rate of these ideas being implemented is the best way to assess the success of innovation. He highlighted the mental maps and mindsets that hinder the innovation 'insights' and went on to detail the various types of innovation gravity and ways to confront them. We often align innovation to out of the box thinking, but the question is out of which box? The session was replete with interesting cases drawn from the real world of business and peppered with innovative ideas conducive to innovation like scapevelocity notion that challenges fundamental notions and many more.

Excellence in Manufacturing: Girish Baluja, Chief Operating Officer, Moser Baer

What insights did the COO of an essentially date storage device organisation have to share with the heterogeneous audience of the Sanmar Group at the TAP session? Drawn from real experiences, he spelt out the best practices for excellence in manufacturing. In the manufacturing process, it is best to restrict complexity within the management discussion room and reduce the actual process to a simple on/ off feature. He prescribed sustainable manufacturing that encompasses environmental and economic sustainability.

Laras' theme: Leadership training at Sanmar

by Ramkumar Shankar, Executive Vice President, Vishay Sanmar Limited

Before 2 September 2005, whenever people at cricket-crazy Sanmar spoke of Lara(s), they were certain to be referring to the dashing West Indian batsman of that name and his exploits on the cricket field. 2 September changed all that. That was the date when the Managerial Leadership Development (MLD) programme kicked off at Sanmar. MLD is a programme that is conducted by an established consulting organisation called Laras, set up by the very dedicated husband-wife team of Ramakrishnan and Latha.

The programme is posited on the difference between leaders and managers, and the need for people at different levels to assimilate the characteristics of both.

Thus arose the need for a managerial leader. While a leader is involved more in the strategising and the team-building activities, a manager is involved in the execution of the strategies. The managerial leader bridges the gap between the top management who are involved in setting direction, and the front-line employees who are involved in the day-to-day steps involved in getting to the targets.

The MLD programme was thus introduced at Sanmar to build this strong layer of managerial leaders. The programme itself was spread over two batches, and six months. The two batches covered over 40 people and included business and functional heads.

N Sankar, Chairman, The Sanmar Group, giving away a certificate to Ramkumar Shankar on his successful completion of the leadership training programme.



At the inception of the course, every participant took an online managerial leadership assessment test, to identify his or her strengths and improvement areas. This was then followed by ten modules of course work, with the participants having to spend a full day at the programme every fortnight during this six-month period. The modules started appropriately with preparing for leadership, and moved on to cover goal setting, change management, importance of attitudes, work-life balance, empowerment, mentoring and emotional intelligence. The course ended appropriately with a module on having fun at work.

At the end of the sixth month, every participant had to make a brief presentation on what he or she had gained from this programme and what he or she intends to do in the months ahead to take this learning forward. This presentation was made to an audience, which included the Group Chairman N Sankar, the Directors M N Radhakrishnan and B Natraj, and the Managing Directors of three of

the Sanmar businesses, P S Jayaraman, P Natarajan and P Viswanathan.

Apart from the valuable inputs on the transformation to managerial leaders, there were a few added benefits, which the participants derived. Every fortnight, the group started off with a success-sharing session where all participants had to share the successes that they had that fortnight. It was amazing to see how many successes (small, big or middling) actually happen every month – and how we unfortunately let the fast pace of our lives lead us away from the pleasures of recognising and celebrating every such success (howsoever small it may be). This understanding of the power of recognising and celebrating successes was one of the biggest wins from this programme. Another major gain from this programme was the (re)discovery by many of the joys of reading. Yet another important takeaway from the programme was the power of goal setting and tracking, and the immeasurable benefits arising from the discipline in both of these.

Over and above all of these, the camaraderie shared by the participants and the closer relationships forged by them led to a lot of them moving from being colleagues to becoming friends.

Finally, the first batch had a ‘convocation’ dinner where certificates were handed out. This dinner, where spouses were present, was a great occasion for letting one’s hair down and having a lot of fun. The second batch has to wait a little longer for this – their programme extends for another six months.

Ultimately, this programme just served to prove that there is a leader in every individual just waiting to be discovered. Hopefully, more such programmes will lead to the discovery of more leaders who will take The Sanmar Group to greater heights in the years ahead.



ITM Business School honours

Sarada Jagan

The Institute of Technology Management (ITM) Business School rated India’s greatest HR professionals and brought out a publication highlighting their achievements. Sarada Jagan, Chief Executive - HR, Chemplast Sanmar

Limited, Sanmar Corporate Division, has been featured as “one among the greatest HR professionals in India”. According to the ITM Business School, Sarada has been responsible for ushering in several cutting edge HR policies in The Sanmar Group. Her major focus areas in HRD include:

- Aligning HR processes to business needs.
- Change management.
- Organisation development.
- Use of technology in efficient and effective functioning of HR.

Living on the edge

by S Mallika, Senior Manager - Corporate Communications, Chemplast Sanmar Limited.

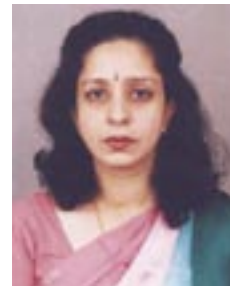
If you have problems with your PC or laptop, whom would you call? If you have trouble handling the fancy mobile phone you bought, whom would you run to for help? There are no prizes for guessing. The youngest kid around is the one who would come in handy. While the grown-up knowledge hulks of the world grapple with Minesweeper and Solitaire and struggle with the humble mouse, the little nimble fingers (coupled with nimble reflexes as well), are out on the international gateway, gaming with someone half a world away, racing on digital tracks, strategising for digital games. Welcome to the world of broadband, technology, optic fibres, communication and more! Our little fledglings are more adept at such technology than us, the current generation, who are witness to the development of that technology.

One Sunday morning, while on an international call, unable to bear the badgering from my little son, I gave him a chance to speak. When I suggested that the call meter was running way too high, that he should end the conversation, he agreed meekly. The moment I stepped out of sight, this illiterate little fellow, who could barely read and write, pressed the 'Redial' button and continued with the conversation that was rudely halted minutes earlier! Marketing gurus are indeed foxed when it comes to profiling the audience for WAP-enabled marketing campaigns. If the moms in the house decide consumer durable purchases, tech upgrades are clearly decided by the Chintus and Chotus of every household.

The point being driven is this. These 'tech-savvy' Chintus and Chotus are

getting into the workplace at a very early age. These are our future, fast-paced managers and every one of the present generation executives will, at some point or other, interact, work-with, or deal with these gizmo wizards with brand new knowledge. They have the most advanced and fastest media and technology to access knowledge. The playing field is already uneven and fast paced. In this scenario, can we afford to be complacent with whatever 'knowledge' we acquired some time ago? Don't we stand the risk of becoming new-age dinosaurs if we fail to upgrade our skills and knowledge?

Welcome to life living on the edge. Keeping pace with changes around us and upgrading knowledge are imperative these days. When the Earth was made, it didn't come with an instruction manual or user guide. The evolutionary process was paced evenly, allowing us to experiment, learn and assimilate new knowledge. The account of the Dasavatara intrigues one endlessly. Grandma's rendition of the ten avatars made you sit up and marvel at them. Looking deeper, I have often wondered—if the chronicles of the evolutionary process of the Earth were to be 'unearthed' it would be adapted from the Dasavatara; the world was replete with natural calamities, earthquakes, under-water and space forays, need for ecological balance, barbarians and stone-age civilisations, intelligent civilisations, best practices for mankind, conflicts, chemical and nuclear weapons, mechanised flight, psychics, telepathy, every development that we are familiar with today has an allegorical mention.





The current era is one of speed, of man on a vehicle of speed, racing against time. Speed in thought, speed in communication, technology to 'speed up' things, processes to bring us 'up to speed'- Speed, fast-track, on the move, in motion, 24/7. Now in the current fast-paced evolution of the future, can we stand still with time-tested methods and ideologies? There is no time for user-guides or chronicles to rely on. Current knowledge would quickly get transmuted into new knowledge. One has to continuously feel the pulse for new knowledge and be in sync with the process of transmutation all around-morph ourselves in tandem with the changes around us or we would lose the edge.

The very thought of new knowledge ruffles up the comfort zone we are so familiar with. This familiarity doesn't breed contempt – it breeds insecurity. New knowledge simply calls for a shift in perspective and this makes the rest easy.

Richard Bach's famous lines can be interpreted as an impetus to gain new knowledge. "What the caterpillar sees as the end of this world, the master sees as a butterfly." Each time we feel stonewalled with old knowledge, there is a tendency to hold on to what we have, hoard it and make it inaccessible. Loosening up and shifting perspectives throws up a whole new possibility of unexplored knowledge ahead of us. We can get an edge if we tap into this unexplored knowledge zone. The sky is the limit to upgrade and seek knowledge. And apply this knowledge to add value to all our actions.

Farewell to veterans

Long service award to N C Chellappan

At a farewell function organised for N C Chellappan, who retired as Joint Manager-QC, Plant II, Chemplast Sanmar, he received an award in appreciation of his successful

contribution over 35 years of service with the group, from V Ranganathan, Chief Executive-Operations, Chemplast Sanmar, on 31 January 2006.



N C Chellappan receiving the award from V Ranganathan, Chief Executive - Operations, Chemplast Sanmar.



T AN Thenappan, Vice President - Operations, Chemplast Sanmar, giving away plaque to Chellappan.

S Ramasamy felicitated

At a farewell function organised for S Ramasamy, Assistant General Manager - Maintenance, Karaikal plant, who retired from service on

31 March 2006, S Venkatesan, General Manager - Operations, Chemplast Sanmar, felicitated him.

S Ramasamy with his colleagues.

S Venkatesan garlanding S Ramasamy at the farewell function.



'Golden harvesting' at Salt Works



Every year the salt season begins with a prayer to nature and the first harvest of the season is termed 'golden harvesting'. T AN Thenappan participated in the celebrations held on 6 January 2006 at Vedaranyam Salt Works.

Kavipuram gets drinking water connection



The people of Kavipuram are delighted as their drinking water needs have been met by Chemplast Sanmar. A new drinking water facility has been provided for the benefit of the villagers and a function was organised in November last year to mark the inauguration of the facility.

Ponnuswamy, Chairman, PN Patti Panchayat, presided over the function. Hariharaputhran, Sundararaman, Ramasubramanian and other officials from Chemplast Sanmar attended the function.

Medical education and health camp at Mettur

A Continuing Medical Education programme titled “Clinical Neurology and Updates” was held at Chemplast Sanmar, Mettur (Plant I) on 18 March 2006. Dr K Vijayan, a Neurologist from KMCH, Coimbatore, presented the paper and it was attended by doctors practicing in and around Mettur.

A General Health Camp was conducted at Veeranur Middle School, Mettur, on 19 March 2006. Dr R Kumar, Senior Manager - Medical Services, and Dr R Kailasam, Manager - Medical Services, Chemplast Sanmar, Dr K Kalyanakumari, MD, DGO, and Dr K Vijayan MD, DM (Neurology) from Coimbatore conducted the camp.

A dedicated team of volunteers from the company ensured the smooth running of the camp. The camp focused on hypertension, diabetes, neurological and gynaecological disorders.

The response to the camp was overwhelming. Over 320 people benefited from the camp.



Health camp in progress at Mettur.



A section of the audience who attended the Continuing Medical Education (CME) programme at Mettur.



Chemplast projects on the move

Vijay Sankar, Deputy Chairman, The Sanmar Group, visited the PVC project site at SIPCOT, Phase II, Cuddalore, on 16 May 2006 followed by a visit to

Karaikal the same day. He inspected the caustic soda facility at Karaikal and also the progress of other projects.



At the PVC project site in Cuddalore, seen from l to r: K Kumaresan, Manager - Projects, M S Srinivasan, Executive Director - Projects, N Sivakumar, President - PVC project, P S Jayaraman, Managing Director, Chemplast Sanmar, N Sankar, Deputy Executive Manager (Admin.), Vijay Sankar, Deputy Chairman, The Sanmar Group, and R Kalidas, Advisor.



S Venkatesan, General Manager - Operations, explaining the model of the chloralkali facility at Karaikal to Vijay Sankar. Looking on are P S Jayaraman and N Sivakumar.



Vijay Sankar seen inspecting the construction of the marine terminal facility at Karaikal along with V Ranganathan, Chief Executive S Venkatesan, GM - Operations and Veludas, Site Engineer, Fichtner Consultants.



Vijay Sankar at the ethylene cryogenic storage facility, Karaikal. Also seen from l to r are: N Sivakumar, S Venkatesan, V Ranganathan, P S Jayaraman, M S Srinivasan, R Kalidas, T Prabhakaran, Construction Manager (Technip) and A S Ganapathy, Site Engineer (Technip).

Chitra Narayanaswamy Centenary

Finance Minister P Chidambaram pays rich tributes

The centenary celebrations of Chitra S Narayanaswamy at the Music Academy, Chennai, on 26 March 2006 was attended by several dignitaries including Union Finance Minister P Chidambaram who was the chief guest at the function. Addressing the gathering, the Finance Minister described Narayanaswamy as a pillar of Tamil and Chennai society. Like Rajaji and many others, he would have welcomed liberalisation as a measure to eradicate poverty in the country and bring economic growth, Chidambaram added.

Chitra Narayanaswamy, founder of Chitra & Company, a Chennai based stock broking firm in 1946, was a former president of the Madras Stock Exchange and Chairman of the Seshasayee Group of Industries. Narayanaswamy was close to the Sanmar family for three generations.



In a message N Sankar, Chairman, The Sanmar Group, said, “During my formative years in Chemplast and Industrial Chemicals, I had considerable interaction with Sri Narayanaswamy,



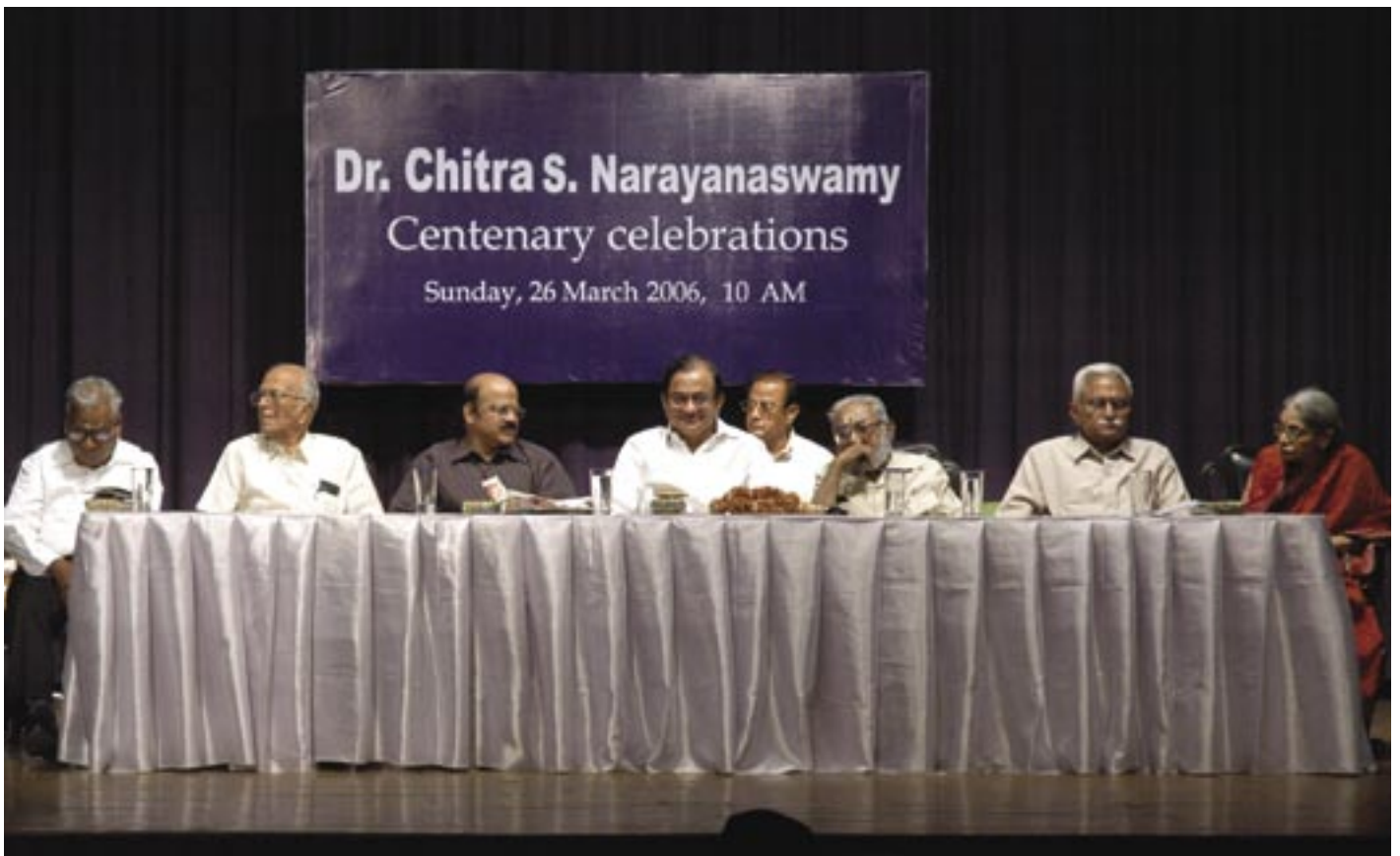
(L to r): Union Finance Minister P Chidambaram, N Sridhar, son of Chitra S Narayanaswamy and P R Ramasubrahmanya Rajha, Chairman, Ramco Group, at the centenary celebrations.

who was a Chairman of these companies. He was acknowledged as a financial wizard and an economist. But I soon realised his depth of knowledge extend to all matters concerning the companies where he was a Director. His practical advice and guidance were invaluable to me.”

Narayanaswamy was the President of the Southern India Chamber of Commerce and Industry and a Member of the Tea Board for two terms. He was the President of the Voluntary Health Services, Adyar, the Children’s Club Society, the Brahma Gana Sabha, the CP Ramaswamy Aiyar Foundation, the Besant Centenary Trust and a host of others. He succeeded C Subramaniam as the Vice Chairman of the Madras Kendra of the Bharatiya Vidya Bhavan and was a Trustee of Kalakshetra.

An outstanding economist, a distinguished philanthropist, successful

businessman, dedicated social worker, connoisseur of art, an ardent lover of music, gifted speaker and a voracious reader, Narayanaswamy was affable, jovial, witty and ever careful not to hurt others. He gave his time liberally for a wide variety of causes. Endowed with a photographic memory and a fine sense of humour, he was a much sought after speaker at seminars and other public fora.



Dignitaries at the centenary celebrations (l to r): V Ganesan, Past President, Madras Stock Exchange, R V Ramani, Member Secretary, Kalakshetra Foundation, B Shivkumar, Chairman and Managing Director, Alpump Limited, P Chidambaram, N Sridhar, Ramasubrahmaneya Rajha and Mrs Lakshmi Krishnamurthy, Trustee, Sathyamurthy Trust for Democratic Studies.

Chemplast Sanmar on winning spree

Ends season with 4 titles

The Sanmar cricket team capped a splendid season by recapturing The Hindu Trophy after a lapse of 14 years. Earlier, the team won the all India Mumbai Cricket Association Corporate tournament in April 2006. Other national level triumphs this season have been the Moin-ud-Dowla Gold Cup at Hyderabad and the Canara Bank trophy at Bangalore. We excerpt below newspaper coverage of the last two tournament victories.

An outstanding run-a-ball 89 by R Sathish helped Chemplast Sanmar, Chennai defeat Oil and Natural Gas Corporation (ONGC), Delhi by a comfortable margin of 42 runs in the final of the Corporate Shield cricket tournament at Wankhede Stadium, on 9 April, 2006. ONGC won the toss and elected to field first on a wicket that appeared green and seamer-friendly, when the day began.

Sathish faced a toe-crusher off the very first delivery and batted uncomfortably, with much pain, to help his team reach 250 runs.

“It was difficult to play and I felt a lot of pain as I batted,” said the Man Of the Match. After being 70-5 at one stage, Chemplast appeared like they wouldn’t cross more than 175 runs. However, with Hemang Badani and Sathish’s 146-run partnership for sixth wicket, Chemplast were back in the game.

MCA Corporate Trophy

In reply, ONGC began well and could have easily won the match if not for some smart captaincy from Chemplast’s Ramkumar. Although they looked in trouble at one stage, ONGC’s Rizwan Shamshad scored a quickfire 45 to keep the hunt on. Along with wicket-keeper-batsman Ajay Ratra, they kept the scoring on and fast until spinners along with good fielding helped Chemplast bounce back.

“It was a team performance and everybody contributed towards the win,” said Ramkumar. The price money for the tournament was three and half lakh and was given away by former India captain Ajit Wadekar.

Brief Scores: Chemplast Sanmar 250 for 9 (Sathish 89, Badani 57, Ramkumar 27, S Badrinath 24; Amit Bhandari 2- 46, Amit Sharma 2-48) beat ONGC 208 (Rizwan Shamshad 45, Ajay Ratra 32, Radhesham 37; J P Yadav 2-13, Ramkumar 2-47, Avinash 2-47, D Mongia 2-27).

Courtesy: The New Indian Express

Riding on opener V Subramania Siva’s splendid 90 and paceman Tinu Yohannan’s three-wicket burst with the new ball, Chemplast Sanmar romped home by 96 runs against India Pistons in the final of The Hindu Trophy at the M A Chidambaram Stadium, Chennai, on 20 April, 2006.

Pursuing a rather stiff target of 225 for victory under the lights, India Pistons ended with 128 for nine in 30 overs. Skipper Sadagopan Ramesh, who batted at No. 4, offered some resistance with an unbeaten 52 (74b, 4x4) but his team could not recover from an early collapse.

Yohannan and A Avinash bowled well at the beginning of the Pistons’ innings. Avinash prised out Jaffer Ashique Ali (2) with a delivery that bounced and left the right-hander. There was some movement for the pacemen because of the evening dew factor.



R Sathish



V Subramania Siva



Tinu Yohannan



Hemang Badani



S Badrinath



N Sankar, Chairman, N Kumar, Vice Chairman and Vijay Sankar, Deputy Chairman of The Sammar Group with the cricket trophies won by Chemplast Sammar this season.

Superb spell

Then Yohannan got into the act. The paceman, who moved the sphere away, had D Dandapani (5) pounced at first slip by Sujith Somasundar and uprooted V Devendran's off-stump (9) when the batsman swung across the line.

The Hindu Trophy

To make matters worse for Pistons, R Sathish, who was adjudged the Man of the Series, sent back S Lakshmikummar (2) with a direct hit from point. And when Yohannan, whose first spell read 5-0-25-3, shifted his line well to have the left-handed Sunil Viswanathan (5) caught by Somasundar in the slip cordon, the contest was going to end only one way. Pistons was 48 for five after ten overs. Ramesh, fluent through the off-side, kept his end up, but received little support. For Chemplast, off-spinner J Ramdas (6-0-19-0) bowled tightly.

Crucial stand

Earlier, Chemplast, which elected to bat, gained momentum due to a second wicket partnership of 99 in 12.5 overs



Chemplast team pose here with The Hindu Trophy.

between *Sportstar* Man of the Match Siva (he received a cheque for Rs. 10,000) and skipper Hemang Badani (45, 41b, 2x4, 1x6).

Siva, who used his feet well, whipped paceman Devendran past the ropes, danced down to strike off-spinner M A Satish Kumar for a straight six and swung S Mahesh, sending down off-spin, over the square-leg fence.

Before he 'walked' after flashing at paceman M R Shrinivas - the best bowler

in the Pistons' attack - and nicking to the keeper, Siva (90, 75b, 8x4, 5x6) had put Chemplast well on the path to victory.

This was also an afternoon, when Pistons' bowlers could not maintain discipline over length and line. They provided width and were taken to the cleaners by the Chemplast batsmen.

N Ravi, Editor, The Hindu, was the chief guest. C R Vijayaraghavan, secretary, TNCA, and N Sankar, Chairman, The Sanmar Group, were present on the occasion.

The scores (final): Chemplast Sanmar 224 for six in 30 overs (Subramania Siva 90, Hemang Badani 45) bt India Pistons 128 for nine in 30 overs (S Ramesh 52 not out).

Courtesy: The Hindu


Brian Lara at IIT- Sanmar cricket ground



The IIT Sanmar cricket ground has played host to some of the world's leading cricket personalities from time to time. We have featured many of them in our pages in the past. Seen in this picture is Brian Lara, one of the greatest batsmen in the world and captain of the West Indies cricket team.

Legends from the South

The Trinity of Carnatic Music



South Indian classical music or Carnatic music as it is universally known today, is rooted in bhakti or spirituality in the Indian context. It is a melodic system of vocal and instrumental music, based on a vast repertoire of verses mostly in praise of or surrender to God in the many forms known to Hinduism. Though there have been many great composers since the system's acknowledged beginnings in the 17th century, pride of place is accorded to the prolific works of the so-called Trinity of Carnatic music—an extraordinary threesome who lived around the same period in the rich agricultural delta of Thanjavur, Tamil Nadu, but whose paths apparently never crossed. Among these, Tyagaraja is considered the most accomplished and devout, his legendary devotion to Rama producing the major part of his songs that set the standard for compositions worthy of performance in the modern classical music concert. The other two, Muttuswami Dikshitar and Syama Sastri were no less gifted or dedicated to their art. Each had a distinctive style and each left a mark on Carnatic music, readily recognizable for his unique contribution to the enrichment of the cultural life of the region.

Tyagaraja (1767-1847) is credited with perfecting the most important form of Carnatic music, the kriti. He wrote most of his lyrics in his mother tongue Telugu, brought to Tanjavur by sixteenth-century immigrants from Vijayanagar in present-day Andhra Pradesh, and regarded as the language of the educated classes in Tanjavur. Tyagaraja was the son of Rama Brahman who specialised in discourses on the Ramayana during the reign of Tulajaji II (1763-87), his patron. Accepted

as a pupil by Sonti Venkataramanayya, a reputed court musician, Tyagaraja soon acquired a reputation as a good singer. Turning down lucrative offers to become a court musician, Tyagaraja spent all his time composing verses in praise of the Lord and singing. 'His inner turmoil in the face of these pressures and conflicts of conscience, perhaps aggravated by financial problems and domestic responsibilities, is reflected in many of his lyrics,' according to a biographical account of his life. Tyagaraja immersed himself in fervent prayers, domestic worship, and participation in various festivities. His spontaneous and ecstatic compositions reveal depth of knowledge of the scriptures, epics, and legends.

Tyagaraja's work covers about 210 ragas (a raga is the basic building block of Carnatic music) many of which he introduced or invented himself. Nearly a thousand of his songs are included in today's repertoire.

Tyagaraja preferred the principled and austere life implied by his personal name which refers to Siva, the divinity of Tiruvarur (the composer's native place) who is perceived as being the ruler (raja) of austerities (tyaga). Tyagaraja expounded and defended the path of musical worship (nadopasana) on the basis of ancient scriptures. Inspired by the custom of holy mendicancy, he and his disciples went around singing in return for food-alms (unchavrtti). Many festive occasions all over South India are accompanied by the re-enactment of this practice.

Since 1925, annual musical festivals have been held at Tiruvaiyaru where Tyagaraja lived to pay homage to his

memory. These and similar aradhanas in other places in and outside India culminate in congregational singing of his compositions specifically meant for singing at temple processions, after singing an elaborate series of songs known as the Pancharatna kritis ('five gems').

Muttuswami Dikshitar (1775-1835) wrote around 400 verses, mainly of the kriti type. Though he composed in Telugu as well, he mainly used Sanskrit in his compositions. His father Ramaswami Dikshitar was a distinguished musician, composer and administrator of music at Tiruvarur, in Tanjavur district. His teacher, a mystic known as Chidambaranatha Yogi took him to Varanasi. There he remained for five years and was exposed to the dhrupad style of North Indian temple music. This influence is reflected in many of his slow compositions.

The compositions of Muttuswami Dikshitar are mostly in praise of various Hindu deities whose temples he visited all over the south. A deeply religious person, he was initiated early into a cult dedicated to the feminine aspect of the Divine. He was also trained as veena player and developed an original style of composition characterised by a slow, majestic pace and rich ornamentation tempered by a feeling of inner stillness. His compositions thus constitute an ideal synthesis of vocal and instrumental styles.

Muttuswami Dikshitar is perceived as a composer who revived some features of ancient music and passed them on to posterity. In this sense he was more conservative than Tyagaraja and retained the older nomenclature of Venkatamakhi to whose tradition he and his father Ramaswami Dikshitar belonged. In many of his compositions (kritis), the music is not repeated at all. The special variant of the kriti form is characterised by the absence of middle

theme (anupallavi), otherwise an integral part of the modern kriti form.

In Madras, Muttuswami Dikshitar heard Western music played by the military and dance bands which inspired him to write Sanskrit lyrics, some addressed to Saraswati, the consort of Brahma and goddess of wisdom, for tunes such as God Save the King, the English anthem. These pieces are known as nottuswara sahitya or 'quasi-European airs'. Out of the 40 compositions of this type which he wrote in his youth, 36 are preserved in notation. Many of these were used as didactic pieces by music teachers of the late nineteenth and early twentieth century.

Muttuswami Dikshitar was the teacher of four brothers, known as the Tanjavur Quartette who spread his musical heritage all over South India. There are some ragas which he alone has employed. His brother Baluswami Dikshitar was the first Carnatic musician to specialise in violin play while Vadivelu of the Tanjavur Quartette, his disciple, is credited with gaining wide acceptance for the violin for use in classical South Indian music.

Syama Sastri (1762 or 1763-1827) was a scholarly composer who led a secure and uneventful life as hereditary priest in the temple of Bangaru Kamakshi at

Courtesy: S Rajam

Tanjavur. Pacchimiriya Adiappayya was his teacher.

Syama Sastri is believed to have composed some 300 pieces (kriti, swarajati, tanavarnam), though only about 50 have been preserved. His lyrics are mainly written in Telugu but some are in Sanskrit and Tamil. Many of his songs are in praise of the feminine aspect of the Divine.

Syama Sastri created a new raga (Chintamani) for which he wrote the only known kriti. Otherwise he composed in well-known ragas of universal appeal, particularly those which unfold their charm at a leisurely tempo. He also established the swarajati, a rare form believed to have been derived from dance music in the concert repertoire through his compositions in three ragas. Syama Sastri employed an intricate compositional device known as swaraksara by which a syllable that denotes a given musical note is made to coincide with a syllable of the lyrics. He wrote some manuscripts containing complex rhythmic patterns and used an inverted form of one of the rhythmic cycles in use in Carnatic music. His son, Subbaraya Sastri, was a disciple of Tyagaraja and became a reputed composer in his own right.

Main source: The Illustrated Companion to South Indian Classical Music by Ludwig Pesch (Oxford University Press).



Muttuswami Dikshitar

Tyagaraja

Syama Sastri

