

# MATRIX

April 2019

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## Prayagraj Kumbh Mela 2019



*Cover Photo:*

Kumbh Mela 2019: To house the pilgrims and tourists, the authorities erected a new mini-city of more than 4,000 tents with modern amenities, and this temporary mini-city was lit by over 40,000 LED lights in the Prayagraj Kumbh city.



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Sanmar Engineering Technologies Ltd

*- Products Divn.*

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BS&B Safety Systems (India) Ltd

Xomox Sanmar Ltd

Xomox Valves Divn.

Pacific Valves Divn.

Anderson Greenwood Crosby Sanmar Ltd

*- Steel Castings Divn.*

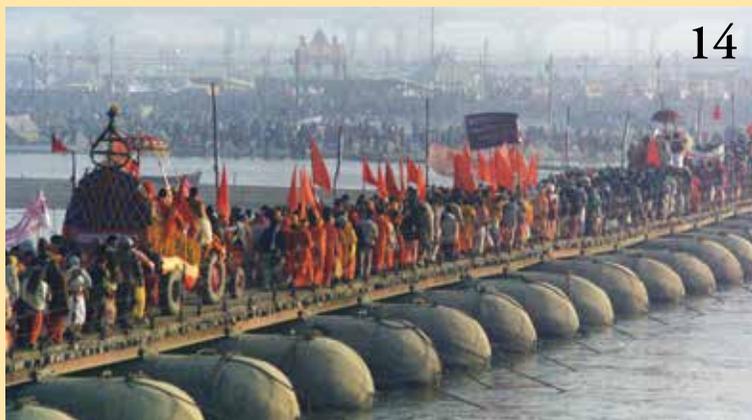
Sanmar Matrix Metals Ltd

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# TCI Sanmar completes project with Phase

## Highlights

- India's largest investor in Egypt's petrochemical business
- Total investment: USD 1.5 Billion
- This is the largest FDI from India into Egypt in any project
- Largest facility in terms of capacity in the entire MENA region
- Biggest caustic soda and PVC producer in Egypt
- Proposed Phase III expansion involving additional investment of USD 125 million in Port Said.

## Product Capacities

	TPA
PVC	: 400,000
Caustic Soda	: 275,000
Calcium Chloride Granules	: 130,000
Ethylene	: 60,000

*An aerial view of TCI Sanmar, Port Said, Egypt*



# II expansion on time with no cost overrun



*VCM Plant overview*



## Salient Features

- High technology focus
- Conforms to Equator principles of social and environmental risk management
- Unique Zero Liquid Discharge plant in operation
- Employment to 3000 Egyptians (including direct and indirect)
- A significant investor in society through CSR activities
- Company's operations result in net foreign exchange earning contributed by export sales and domestic sales substituting imports

*VCM Plant*



*Calcium Chloride Plant*



*PVC Plant*



# Chemplast signs MoU with Government

## Proposed 1000 crore

The Global Investors Meet (GIM) 2019 organised by the Government of Tamil Nadu provided an ideal platform for presenting Tamil Nadu as a preferred investor's choice.

The second edition of the summit was held on the 23-24 January 2019 in Chennai, encouraged by the resounding success of the first edition of GIM 2015 that showcased the competitive strengths and opportunities of Tamil Nadu. According to Chief Minister Edappadi K Palaniswami, the state government's single-window portal for MSMEs ensured time-bound

processing of applications and issue of clearances by various departments.

Chemplast Sanmar signed a Memorandum of Understanding with the Government of Tamil Nadu to a tune of Rs 1000 crores towards expansion of existing manufacturing facilities at Cuddalore. Chemplast has a Suspension PVC resin manufacturing facility at Cuddalore with 300,000 TPA capacity and upgrading and expansion plans are in the offing.

The MoU was signed by Ramkumar Shankar, Managing Director, on behalf of Chemplast Sanmar and the

*Ramkumar Shankar, Managing Director, Chemplast Sanmar, seen standing first from left.*



# of Tamil Nadu at Global Investors Meet

## expansion plan at Cuddalore

Additional Chief Secretary, Industries, K Gnanadesikan, IAS.

During its two-day flagship second edition of Global Investors Meet (GIM 2019), the Tamil Nadu government has signed 304 MoUs worth over Rs 3 lakh crore which will provide job opportunities for 10.5 lakh people.

The summit was well attended by the captains of industry, diplomats, CEOs, policy makers, academicians, financial institutions, members from trade bodies and entrepreneurs. Interactive sessions with key

stakeholders including policy makers, senior government representatives and academia were held.

A highlight of the event was the presence of over 250 exhibition stalls that showcased products and services of investors and partner countries.

*Sanmar stall at the Global Investors Meet.*



# “Enormous opportunity

## Vijay Sankar, President, ICC, at the 12th Annual

“Opportunities for India are very many. We are underinvested, which is an enormous opportunity to attract investment in India and create job opportunities. We have 10 million people entering the job market each year. We have low per capita consumption of Chemicals, 1/10th of world average,” said Vijay Sankar in his welcome address at the 12th Annual India Chemical Industry Outlook Conference organised at Mumbai on 7 – 8 February 2019.

The 12th Annual event was organised in collaboration with the Department of International Trade, UK and with the support of the Department of Chemicals and Petrochemicals, Government of India. McKinsey & Company was the event’s Knowledge Partner.

Vijay said that ICC, as a premier association of the chemical industry,

was working with both industry and government to try and take advantage of these opportunities in both the Basic and Speciality Chemicals industry. He called for a stable policy regime to encourage investments in the basic chemical industry in India, wherein import substitution represents a great opportunity, as well as a faster environmental clearance to drive growth in the speciality chemicals sector.

According to him, India has moved to a very low tariff regime for basic chemicals, which has benefitted international companies who have not cared to invest in the country. “Basic chemicals companies are larger companies where the challenges are not the environment, but better margins. There is an inadequate duty spread across a spectrum of products leading

*Vijay Sankar, President, ICC, delivering the welcome address.*



# to attract investment in India”

## India Chemical Industry Outlook Conference

to dumping of products. The various Free Trade Agreements (FTAs) with many countries have aggravated trade deficits and have been negative for our industry. The current tariffs are too low in the context of FTAs.”

Quoting the famous words of John F Kennedy, “ask not what your country can do for you, ask what you can do for your country,” Vijay Sankar stressed, “we should ask what the industry (we) can do for the country rather than only ask the Government for support. To ensure the industry’s success, we need a change in mindset by the industry – one bad egg spoils the reputation of the whole industry.”

Continuing in the same vein, he said, “the Chemical Industry is the one with the biggest opportunity to contribute to the Prime Minister’s ‘Make in India’ programme, as it is amongst the largest contributors to the country’s GDP.”

ICC continues to engage with the Government through its flagship programmes – ‘Responsible Care’ and ‘Nicer Globe’ to improve the perception of the public of this very valuable industry.

*P Raghavendra Rao at the Sanmar Engineering Technologies exhibition stall.*



*P Raghavendra Rao, Secretary, Department of Chemicals and Petrochemicals, Government of India, inaugurating the exhibition organised by ICC.*



# Sanmar Engineering at CII's Annual Valves Conference

Growth prospects are bright for the Indian Valves industry, with the potential being one of doubling the industry's turnover from USD 2 Bn to 4 Bn within the next 5 years. This was the knowledge take away from the CII Valves Conference 2018, "Building Brand India: Opportunities and Challenges" on 13 December 2018, at Hotel St Regis, Mumbai. The Prime Minister's 'Make in India' initiative is expected to play a major role in fulfilling this potential.

Various valve manufacturers and end users participated in the Conference.

Dinesh Khanna from Sanmar Engineering Technologies Limited (SETL) made a presentation on "Total Cost of Ownership for Valves" which included an overview of SETL Products, factors influencing total cost of ownership (TCO), right selection/ product features which help in minimising TCO.

*Dinesh Khanna from Sanmar Engineering Technologies making a presentation on 'Total Cost of Ownership for Valves' at the CII Annual Valves conference.*



# Sanmar Engineering Customer Meet at Mumbai



A Customer Meet was organised by Sanmar Engineering Technologies Limited (SETL), Product division, at Mumbai on 27 February 2019. This coincided with the visit of the leadership team of one of Sanmar's JV partners, Crane Chempharma and Energy, USA. The team was led by Jordon Bast, Vice President and General Manager.

Over a hundred representatives from various Customers in Western Region attended the event. A presentation on Xomox Valves and Emission Norms was made by Jordon Bast, Crane Chempharma and Dinesh Khanna presented on The Sanmar Group and Product portfolio of SETL companies.

*Jordon Bast, Vice President and General Manager, Crane Chempharma and Energy, USA, speaking on "Xomox Valves and Emission Norms."*



*Demo on Bursting Rupture Disc - by another Sanmar JV -BS&B Safety Systems (India).*

# Prayagraj Kumbh Mela 2019

## World's largest peaceful congregation of faith

Kumbh Mela or the Kumbha Mela has gained international fame as “the world's most massive act of faith.” As the largest iconic peaceful gathering of pilgrims for weeks in the same place, Kumbh Mela is one such event that marks the celebration of Hindu heritage.

The Prayagraj Kumbh Mela which concluded on 4 March 2019 witnessed close to 25 crore devotees and over one crore on Mahashivratri alone.

As Prime Minister Narendra Modi put it, “This Kumbh showcased the best of our culture, spirituality and will be remembered for years to come.”

From sadhus who remain naked year-round or practice the most severe

physical discipline, to the naga akhadas, militant ascetic orders whose members formerly made their living as mercenary soldiers and traders, to hermits, who leave their isolation only for these pilgrimages, and to silk-clad teachers using the latest technology – the Kumbh embraces them all. Religious organisations, social welfare societies and political lobbyists, crowds of disciples, friends, and spectators – pilgrims to the Kumbh are drawn from all walks of life.

Many travel long distances, through any form of transport available at their disposal - bus, car, train or flight or even by walk. The devout pays no heed to the travails of weather. They undergo

*Huge processions of all 13 akharas (orders), taking part in the Kumbh, were the first ones to reach the confluence.*





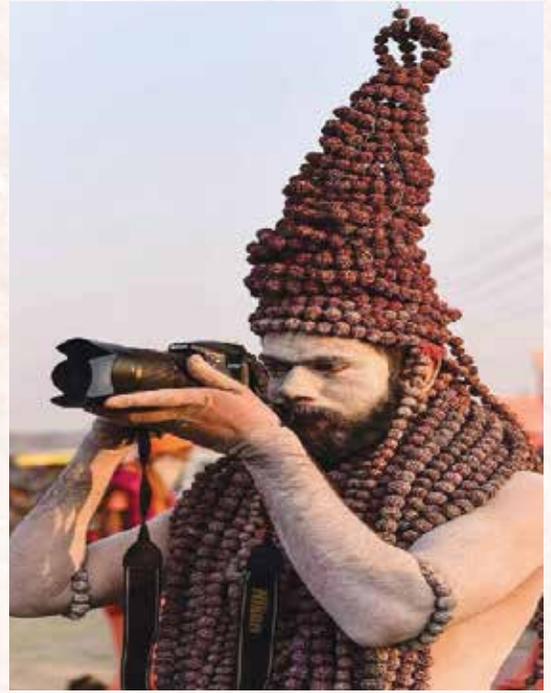
these difficulties just to be there at the sacred river at Kumbh Mela, and take part in Pravachan, Kirtan and Maha Prasada.

The Kumbh Mela is over 2000 years old and proof of this is found in the writings of the Chinese traveller Hiuen Tsang, who had come to India during the reign of King Harshavardhana.

The Mela is held on the dates when the waters of the sacred rivers are said to turn into nectar. The exact dates are calculated according to a combination of zodiac positions of Jupiter, the Sun and the Moon.

Other than the Maha Kumbh at Prayagraj (new name for Allahabad), Ardh Kumbh is organised on a rotational basis between the sacred rivers at Haridwar on the Ganges, at Ujjain on the Shipra, at Nasik on the Godavari and at Prayag at the confluence of the Ganges, the Yamuna and the mystical Sarasvati. The Mela at Prayag (Allahabad) in particular attracts millions of pilgrims.

The Kumbh festival is related to the myth about the churning of the ocean



*Unique and colourful sadhus at the Kumbh Mela 2019.*

to get the nectar of immortality. The churning was done by both the gods and the demons. After the churning, there was a fight over distribution of the nectar. Some stories suggest that Lord Vishnu disguised himself as a beautiful lady and seized the nectar. While fleeing from the demons he placed the nectar on Garuda. A few drops fell on Allahabad, Nasik, Haridwar and Ujjain. Since then Kumbh Melas are held at these sites. Another version of the story suggests that during the

*A saint takes a dip in the holy waters at Kumbh Mela.*





six years and the Maha Kumbh Mela after 12 years.

Another tradition ascribes Kumbh Mela's origins to the 8th century philosopher Adi Sankara, who instituted the system of regular gatherings of ascetics for debates.

The Prayagraj Kumbh Mela this year was celebrated from January 15 to March 4, for 55 days. The Uttar Pradesh government had drawn up an estimate of more than Rs 4,200 crore for the preparations for Kumbh Mela. According to UP government, at least 7.49 crore devotees took a dip on the 2nd 'shahi snan' of Mauni Amavasya.

To accommodate the millions of pilgrims, more than 35,000 toilets have been installed, 14 temporary

*Sea of humanity: Millions of devotees thronging to take a dip at the Triveni Sangam, a confluence of the rivers Ganga, Yamuna and mythical Sarasvati in Prayagraj (Allahabad).*

chase the pot (Kumbh) was kept on the ground and the places where it was kept later became the sites of the festival. As the story goes, it took 12 days to carry the nectar to heaven. One day of the gods is equal to one human year, and hence the festival is celebrated every 12 years. Ardh Kumbh is held every



hospitals were built, 243 doctors were employed and 30,000 police were hired for security and crowd control.

About 800 special trains were pressed into service, in addition to the regular trains, to facilitate pilgrims arriving in large numbers at the Kumbh Mela. Four floating terminals and two vessels were deployed by the Inland Waterways Authority of India.

In keeping with the changing times, the UP Police had developed an App that would guide the visitors to the Kumbh Mela to almost everything they need. So no worries if he/she loses belongings, forgets a parking spot or want to visit a specific akhara at the Mela. Also the website/app provided routes to bus stops and railway stations, hotels and lodges.



*Aarti rituals at Kumbh Mela.*

Tent cities were set up at the Kumbh Mela grounds this year and private cottages and dormitories were also offered by private firms. Various lighting arrangements on the banks including façade lighting engulfed the pilgrims in diverse colours and different cuisines and gourmet food in the food courts satisfied the appetite of the pilgrims.

To cap it all, the Prayagraj Kumbh Mela 2019 had secured a place in the Guinness Book of World Records for the largest clean-up drive, most contributions to handprint painting, and largest parade of buses, according to the Ministry of Culture, Govt of India.

A Confederation of Indian Industry (CII) report stated that Prayagraj Kumbh Mela 2019 was expected to generate employment for six lakh workers across various sectors and revenues of Rs 1.2 lakh crore. So not just religious, but an economic blessing as well.



*Guinness Book of World Records for the Largest clean-up drive, most contributions to handprint painting, and largest parade of buses.*

*Photos from Internet*

# Sanmar Shipping fleet

## Sanmar Santoor, clean

Sanmar Santoor (previously Ardmore Seatrader) joined the Sanmar fleet of Clean Petroleum Product tankers on the 11 January 2019.

Santoor is a Medium Range (MR) Product tanker and a good fit for movement of clean products across

the globe. Her addition to our fleet, increases Sanmar Shipping's presence in the MR tanker sector and the fleet to 8, comprising 7 product and 1 LPG tanker.

Santoor was built at Onomichi Dockyard Co. Limited, Japan in



# expands with addition of petroleum Product Tanker

December 2002. It has a DWT of 47,000 MT. This double hulled oil tanker is now Indian Flagged, classed with Lloyds Register and Indian Register of Shipping.

Fitted with a first generation environment friendly main and auxiliary engines, with emission limits compliant to the norms stipulated in the year 2000, the vessel is designed to carry clean petroleum products.

Santoor has been inducted into the Hafnia pool. She is designed to carry a wide range of refined cargoes and with specific tank segregations that allow her to carry multiple grades of cargo on a single voyage.

*An aerial view of Sanmar Santoor.*



# TNTA's 'Celebrate Tennis' event

The who's who of Indian tennis, past and present, were in attendance as the Tamil Nadu Tennis Association (TNTA) honoured the players and administrators at the 'Celebrate Tennis' event held in Chennai on 23 December 2018 at Hotel Leela Palace. The event showcased the achievement of players across generations from Tamil Nadu.

TNTA President Vijay Amritraj welcomed the gathering of guests from the Krishnan era of the 1950s-60s to the current decade. It was an evening of nostalgia and bonhomie with the audience travelling down a long memory lane, sharing anecdotes of yesteryears.

It was time for felicitations when players across eras were recognised. N Sankar, Past President, TNTA, was felicitated for his contribution to Tennis alongwith other TNTA past presidents – N Murali and V Narayanan.

Also, legendary players – Ramanathan Krishnan, his son Ramesh and Anand Amritraj were felicitated among others.

*Legends of Indian Tennis - Ramanathan Krishnan, Anand Amritraj and Ramesh Krishnan - honoured at the event.*



## Jolly Rovers player Jalaj Saxena, leading wicket-taker at Ranji Trophy

Jalaj Saxena is an all-rounder and most of the time an opening batsman for the team he belonged to. Be it the 2013-14 Ranji or the latest 2018-19 Ranji Trophy he has proved himself worthy every mile.

In the 2017-18 Ranji he made a staggering 522 runs and claimed 44 wickets, the most by any bowler for the season. This off-spinner is the first Indian to score a century and take an eight-wicket innings-haul in the same match twice. He has represented India 'A' team this year.

He has won the BCCI's 'Best all-rounder' award for domestic cricket thrice and was adjudged the 'Best Bowler' once. He won the Lala Amarnath award for the best all-rounder for the 2014-15 season in which he piled up 768 runs and took 20 wickets. Saxena has been part of two IPL franchises but, has never played an IPL match. At times, when he was dejected, he would be reminded of his father's advice "Just enjoy the game."

Jolly Rovers roped Jalaj Saxena in for the season in 2018. The Ricky Ponting fan Saxena finally found some light at the end of the tunnel this year when he was bought to play IPL for the Delhi Capitals team for a base fare of twenty lakhs.

Though not playing for the men in blue, Saxena is quite happy. According to him, "contributing to the team's cause is important and that is where my focus is."



(L to R): TNTA Past Presidents – V Narayanan, N Murali and N Sankar – being felicitated by Vijay Amritraj.



# Chemplast strengthens infrastructure at Mettur

Chemplast Sanmar has initiated several welfare schemes in schools in and around Mettur. Chemplast extended financial assistance to the tune of Rs 10 lakhs for improving infrastructure at schools and the payment was made to headmasters of schools and Anganwadi centres by Chemplast's S Gajendiran and R Karthik on 8 March 2019.

To enhance the skills of the students belonging to Vaidheeswara Higher Secondary School, Pudasampalli Government High School, Kunjandiyur Government High School and Gonur Government High School, necessary books for their library and almirahs were given. Prizes were distributed to motivate top rank holders in Primary, Middle and Higher Secondary classes.

To encourage sports skill of the rural students, Chemplast distributed



*S Gajendiran and R Karthik from Chemplast Sanmar donating sports equipment at the MGR Nagar Youth Club.*

outdoor sports materials including Volleyball, Football, Basketball, Chess, Cricket, Shuttlecock, Badminton sets and Carrom Board to the MGR Nagar Youth Club. R Karthik, Chemplast Sanmar,



# schools



distributed sports materials and furniture to Thangamapuripattinam Integrated Child Development Service centre.

Further, in three primary schools, outdoor games equipment – see-saw and swing – have been installed. Books and cupboards were donated to Annai Library, Thangamapuripattinam.



## Chemplast veteran S Venkatesan honoured with CIT's distinguished Alumni award

That S Venkatesan has been honoured with the CIT's distinguished Alumni award comes as no surprise, for he is a veteran with industrial experience of over 42 years.

Venkatesan began his career as a shift chemical engineer and has grown to the level of an Executive Director. He joined Chemplast Sanmar in 1988 and is presently incharge of the plant operations of Chemplast at its Mettur, Cuddalore, Karaikal, Vedaranyam and Panruti locations. Venkatesan has also served at the TCI Sanmar, Egypt.

Venkatesan graduated as a Chemical Engineer in 1977 from the Coimbatore Institute of Technology (CIT), a premier Engineering Institution in India, that was established in 1956 and has produced over 20,000 engineers since.

Every year, the Institute recognises select few Alumni, who have excelled in their careers and honour them with the Distinguished Alumni award. The award is presented at the Alumnus gathering at the college on the second Saturday in March every year.



This year, S Venkatesan was one of the seven recipients who were honoured. He was recognised for his outstanding leadership in Chemical Process Industry and for his dedication, sincerity and hard work.





## Exceptional Children excel at Special Olympics

The Exceptional children of the Madhuram Narayanan Centre took part in the Special Olympics conducted by the Madras West Round Table 10 and the Special Olympics Bharat 'MWRT 10 – Unified Special Olympics 2019' in the presence of Chief Guest Banwarilal Purohit, Governor of Tamil Nadu on 9 February 2019 at the Nehru Indoor Stadium. Forty four children participated and thirty three of them won home certificates and medals.

# Madhuras Narayanan Centre for Exceptional Children

## 16th Annual Sports Day

At the Madhuras Narayanan Centre for Exceptional Children, sports day is very much part of their curriculum as it brings both physical and cognitive skills to the fore.

MNC children displayed extraordinary level of energy and enthusiasm and participated in a variety of gaming activities that were designed to suit their motor skills, social and cognitive abilities and daily living activities.

Children from other special and mainstream schools joined the Sports Meet and inter school events conducted on 8 February 2019.

Chief guest MS Ramesh, incharge of Law and Order, Teynampet



Police Station lit the torch and declared the Sports Meet open and gave away the prizes to the children.



## Legends from the South

### The Tanjavur Quartet

Bharatanatyam as is known today, was formally codified and given the structure of a 'margam' in the eighteenth century by four brothers from Tanjavur, famous as the Tanjore Quartet. They composed in Telugu, their mother tongue, Tamil and Marathi. Their compositions were usually in praise of their family deity Lord Brihadeeswara, about patron kings and ministers and also the different deities whom they worshipped during their travels.

The four brothers learnt the art of dance from their grandfather Gangaimuthu Nattuvanar and father Subbarayan. After mastering the theory and practice of the dance form they went on to formulate a structured performing pattern for Bharatanatyam which is popular till this day.

It is generally believed that the brothers learnt Carnatic music from Muthuswami Dikshitar. All of them were serving in the Brihadeeswara temple as natyacharyas conducting the daily service performed by the devadasis attached to the temple, and annually the Tyagaraja Kuravanji.

#### Chinnayya

Chinnayya (1802-1856) learnt vocal music and Bharatanatyam from his father Subbaraya Nattuvanar. After a tiff with King Serfoji, the brothers set out on a

pilgrimage and reached Mysore. Two years later, Chinnayya became the asthana vidwan in the court of Maharaja Mummadi Krishnaraja Wodeyar III. He trained several disciples and composed many varnams, sabdams and javalis. Chinnayya married Jnyanambal, daughter of Ammachatram Abhiramisundara Nattuvanar, and lived in Mysore till his death. He had no children.

#### Ponnayya

The second son of Subbaraya Nattuvanar was Ponnayya (1804-1864). Besides vocal music he also learnt veena from Muthuswami Dikshitar and served the Tanjavur court for some years. It was he who composed the music for the Sarabhendra Bhoopala Kuravanji of Kottaiyur Sivakozhundu Desikar. He also left Tanjavur with his brothers and went to many places, but when King Shivaji sent a message to the brothers seeking forgiveness for the mistake committed by his father Serfoji, and requested them to return to Tanjavur, both Ponnayya and Sivanandam acceded to his request. A considerable number of jatiswarams, sabdams, varnams and many tillanas and javalis were composed by Ponnayya. The common mudra found in most of Ponnayya's compositions is 'Brihadeesa' though he also employed other mudras. Ponnayya

composed not only on Siva and Ambika, but also on Vishnu. Ponnayya composed many padams in honour of Serfoji, before the brothers left Tanjavur. As Marathi was prevalent in Tanjavur, Ponnayya also composed a Marathi padam Naremani in Huseni.

The eldest daughter (name not known now) of Kodandarama Nattuvanar of Orattanadu was given in marriage to Ponnayya and the couple had four daughters. The famous nattuvanar Pandanainallur Meenakshisundaram Pillai (1869-1954) was the son of Ponnayya's eldest daughter Kutti Ammal.

#### Sivanandam

Sivanandam, the third son of Subbaraya Nattuvanar, was born in 1808. The ruler Shivaji and Sivanandam were thick friends right from their early years. Not a single day passed without their meeting. When the brothers decided to leave Tanjavur, Shivaji felt very sad that he had to part with his friend and started disliking his own father. That is why, as soon as he ascended the throne, he sent word to the brothers to return. A number of sabdams like Venyuda, varnams like Danike (Todi), which became very popular in present day Andhra Pradesh, and tillanas were composed by Sivanandam. Though many girls were trained by him in the art, he could be deemed to be the first nattuvanar to coach a

male in Bharatanatyam. The lucky student was Vedaranyam Subbaraya Pandaram.

Sivanandam married Taiyalnayaki, great grand-daughter of Mannargudi Gopala Nattuvanar. Two sons were born to them. His first son, Mahadeva Nattuvanar (1832-1904) was an expert in singing, mridangam playing and the art of Bharatanatyam. He was the guru and father-in-law of Meenakshisundaram Pillai. He also learnt to play the clarinet from Richard Mendez of the Tranquebar fort then under Dutch rule. He was the first to use the clarinet in the orchestra for Bharatanatyam. Sabhapati Nattuvanar was the second son of Sivanandam. Sivanandam passed away on 4 February 1863.

### Vadivelu

The youngest of the Quartet was the outstanding composer and natyacharya, Vadivelu, who was born on 8 October 1810 (according to the Tirutturaipoondi manuscripts). Having learnt music and Bharatanatyam from his father and elder brothers, he got

acquainted with Isaac Johnson, a violinist in the Tanjavur Band, and learnt the art. Gradually Vadivelu changed the fingering technique to suit Carnatic music and very soon became an enviable violinist. There is another version that it was Baluswami Dikshitar who first played Carnatic music on the violin. A letter (1824) from the Tanjavur Regent, Steven, to the Governor at Fort St. George states that "this short man Vativeloo has exhibited his talent by performing their music on our instrument and he should be given an opportunity to play before Your Excellency..." (in the Madras Archives). Having heard of the prowess of Vadivelu from his Dewan Subba Rao, Maharaja Swati Tirunal sent an invitation to Vadivelu in 1830 and appointed him as the chief asthana vidwan of Travancore. In 1834, he presented Vadivelu an ivory violin, which is still to be seen in the house of the Quartet's family. The highest salary to the chief court musician was paid to Vadivelu.

Vadivelu's compositions are many. Sabdams, pada varnams, tana varnams and tillanas are to his credit. Since he spent most of his

life in the Thiruvananthapuram court, almost all his compositions bear the mudra Sarasijanabha, Padmanabha and the like.

At the request of the Maharaja, Vadivelu revived Mohini Attam and gave a facelift to it. Vadivelu married the younger daughter of Orattanadu Kodandarama Nattuvanar (the sister-in-law of Ponnayya). He declined the request of King Shivaji to return to Tanjavur and lived in Thiruvananthapuram till his end in May 1847.

### The Bharatanatyam repertoire

Coming to the Bharatanatyam repertoire, the four brothers of Tanjavur, because of their sojourn at various temples, felt there was no uniformity and wanted to redo it. Thus they evolved melaprapti, alarippu, jatiswaram, sabdam, varnam or sometimes swarajati, padam, javali, tillana, sloka and mangalam as the items to be performed. The new repertoire formulated by the Tanjavur Quartet is popular to this day.

The Quartet's male descendants were great artists who continued the family's priceless tradition.



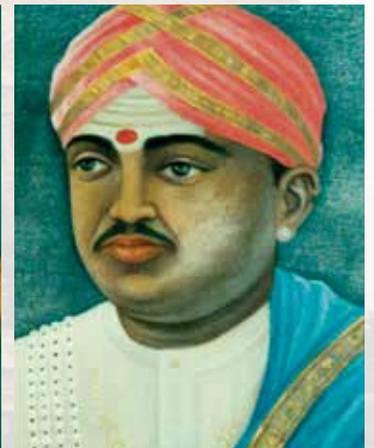
Chinnayya



Ponnayya



Sivanandam



Vadivelu

