



**Indian Institute of Technology Madras**  
Office of Alumni and Corporate Relations

# IMPACT OF YOUR GIVING

**Mr. MALLIK PUTCHA**

- ✓ Prof. MS Ananth Endowment Fund
- ✓ Prof. Sampath Institute Chair
- ✓ 1964 Batch Project - Heritage Centre
- ✓ Chennai Flood 2015
- ✓ Tree Plantation in IITM
- ✓ Founding Professors
- ✓ Keep it Flowing
- ✓ COVID-19 Relief for India

Indian Institute of Technology Madras  
**[www.iitm.ac.in](http://www.iitm.ac.in)**  
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**Prof. BHASKAR RAMAMURTHI**  
Director, IITM

“IIT'-s offer a fantastic environment to learn, not only from teachers but also from each other. Every IIT student must use the 4 or 5 years they spend here to realize their full potential and excel, academically and professionally. Our experience shows that alumni who use the opportunity provided here well, go on to flourish in ways we would not even have imagined when they were students.

We have an entire pre-incubation ecosystem on campus with a Centre for Innovation where students can walk in with an idea and walk out with a product. This ecosystem provides cutting edge facilities along with funding support to help progress with an idea, propelling the research output of the Institute rapidly. IIT Madras has bagged the Top Rank in 'Overall' category for the third consecutive year and No.1 in 'Engineering' category for the sixth consecutive year.

The Institute is steadfastly focused on fundamental and translational research given the development imperative of the country and aims to work towards solutions to the pressing problems facing society. IIT Madras is proud of its global alumni diaspora and well-wishers, second to none in terms of its accomplishments.”

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**HEARTFELT GRATITUDE TO Mr. MALLIK PUTCHA & HIS FAMILY**

“Our aim to provide continued solutions to social problems on a global scale is realised through the sustained support of well-wishers such as you.

We thank you for your contribution as we present a report of its impact. We hope to receive your help and support for our future endeavours to take IIT Madras to the global stage.”



**Prof. MAHESH PANCHAGNULA**  
Dean, Alumni &  
Corporate Relations, IITM



## Mr. MALLIK PUTCHA (1964/BT/EE)

Mr. Mallik Putcha, a software engineer who retired after a 30-year career in the aerospace industry, is a big believer in education, and in supporting those who supported him in his education and career.

Putcha has a master's degree in software engineering from UHCL (University of Houston-Clear Lake), an MBA and master's in electrical engineering from UH, and completed B.Tech & M.Tech in electrical engineering from the Indian Institute of Technology Madras. He retired from Cimarron Software after working with Boeing Defense and Space, IBM and Ford Aerospace on NASA projects.

*Giving is Not Just About  
Making A Donation  
It's About  
Making A Difference*





# SUMMARY OF YOUR CONTRIBUTIONS

## TOWARDS IIT-MADRAS

2011	01	Prof. MS Ananth Endowment Fund Prof. Sampath Institute Chair	\$ 250 \$ 2500
2015	02	1964 Batch Project - Heritage Centre	\$ 1500
2016	03	Chennai Flood 2015 Prof. Sampath Institute Chair	\$ 500 \$ 50000
2017	04	Tree Plantation in IITM	\$ 30
2018	05	Founding Professors	\$ 1500
2019	06	Keep it Flowing	\$ 1000
2021	07	COVID-19 Relief for India	\$ 500



# Prof. MS ANANTH ENDOWMENT FUND

In 2011, IIT Madras alumni founded the Prof. M.S. Ananth endowment fund, in honor of Prof. M.S. Ananth, who was then retiring as Director. He was well-known for his contributions to science and teaching, as well as his tireless efforts to develop higher education and research in India.

## This fund's interest is put to two separate uses:

1. To support socially relevant projects
2. To support the children of staff members of self-help organizations who work on campus with their school and higher education needs.

## Socially Relevant Projects that are currently being supported are:

### Project 1 - Low Cost Accelerated Micro Composting Centers

Principal Investigator: **Prof. Indumathi Nambi,**  
Department of Civil Engineering



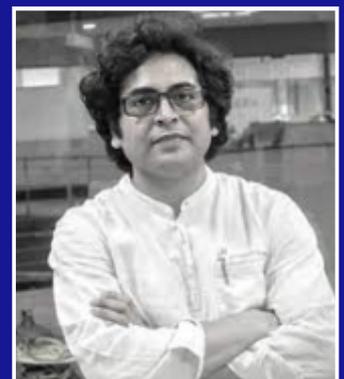
### Project 2 - Potent, Economical and Agro-Waste Based Adsorbent Filter; Developed In-House to Treat Textiles Dyeing Units Effluents in Villages.

Principal Investigator: **Prof. A Kannan,**  
Department of Chemical Engineering



### Project 3 - HomoSEP: Robot for Homogenization of Contents and Cleaning of Septic Tanks

Principal Investigator: **Prof. Prabhu Rajagopal,**  
Department of Mechanical Engineering





**Project 4** - Energy Generation Using VAWT-Focus on Incorporating Modular Design and Low rpm Generation

Principal Investigator: Prof. Palaniappan Ramu

**Prof. Palaniappan Ramu,**  
Department of Engineering Design



**Project 5** - Kidney Exchange – Models and Algorithms

Principal Investigator- Prof. Meghana Nasre

**Prof. Meghana Nasre,**  
Department of Computer Science and Engineering



**Project 6** - Publishing High-School Science books in regional languages (Telugu and Tamil) and donating them to village school libraries.

Principal Investigator: **Prof. Srinivasa Chakravarthy,**  
Department of Biotechnology



For more detailed report

**CLICK HERE** 





## Prof. SAMPATH INSTITUTE CHAIR



Chairs are occupied by Professors who have distinguished themselves and been recognized by their peers for their research and/or technology development, and who have excelled in teaching and service to the Institute/nation/profession. It is intended to host the eminent expert Professors as Chair with various options for visits and engagement, suitable salary and benefits or honoraria, accommodation and varied endowment amounts as applicable. The achievements must therefore go beyond those that earned them the Professorship, and should demonstrate leadership in academia, industry and research.

Late Prof. Srinivasa Sampath (1925-1998) served as the professor at the Department of Electrical Engineering and Deputy Director at IIT Madras. He was instrumental in the academic development and growth of IIT Madras. Prof. Sampath specialized in the areas of electron tube design; servomechanisms and controls; electronic measurements; pulse techniques; television engineering and analogue, digital and hybrid computer techniques. In 1981, Prof. Sampath became the Director of IIT Kanpur and brought instrumental changes in the field of computer sciences. He set-up the computer centre based on DEC 1090 system; established the UN Development Programme sponsored centre for Computer Aided Design in the inter-disciplinary areas of Mechanical and Civil Engineering and Fluid Flow Systems.

Prof. Sampath played a pioneering role in ushering in modern technology in post-independent India working across academia, research and development laboratories, industry, and government. He was an excellent teacher and a role model to his students. He was a gifted speaker of exceptional calibre in the areas of education, technology, and spirituality.





**Prof. Ashok Jhunjunwala**

**Chair Occupant: Apr'2016 - Jun'2021**

Ashok Jhunjunwala, Institute Professor at Indian Institute of Technology, Madras at Chennai, India.

Following his B.Tech degree from IIT Kanpur, he obtained his MS and PhD from University of Maine, USA.

He was an Assistant Professor at Washington State University, USA for a year and half and has been a faculty at IIT Madras since 1981.

He has just completed one and half year of his services as Principal Advisor to Minister of Power, MNRE and Railways, Government of India, New Delhi.

### Academic Achievements / Awards

- ✓ Professor Jhunjunwala is Member of national Academy of Engineering (NAE), USA and Fellow of IEEE and World Wireless Research Forum (WWRF). He is also a fellow of the four S&T academies in India, namely, INSA, NAS, IAS, INAE.
- ✓ Prof. Jhunjunwala was conferred the highest civilian Honor, Padmashri in India.
- ✓ He has received a number of awards in India including Shanti-Swarup Bhatnagar Award, Vikram Sarabhai Research Award, H. K. Firodia Award, Millennium Medal at Indian Science Congress, UGC Hari Om Ashram Award, IETEs Ram Lala Wadhwa Gold Medal, JC Bose fellowship, Dronacharya Award and Lifetime Achievement Award by TIE, Chennai among others.
- ✓ He has also received Silicon India Leadership Award in USA. He has also been conferred honorary doctorate by University of Maine, USA and Blekinge Institute of Technology, Sweden.





## Technology Contributions

Prof. Jhunjhunwala is considered a pioneer in nurturing Industry-Academia interaction in India towards R&D, Innovation and Product Development. He conceived and built India's first university affiliated business park (IIT Madras Research Park).

He has been developing products for masses; affordable yet technically advanced products in India, like Wireless in Local Loop, Remote health monitoring system, ATM, Solar-DC to homes, Affordable electric vehicles, etc.

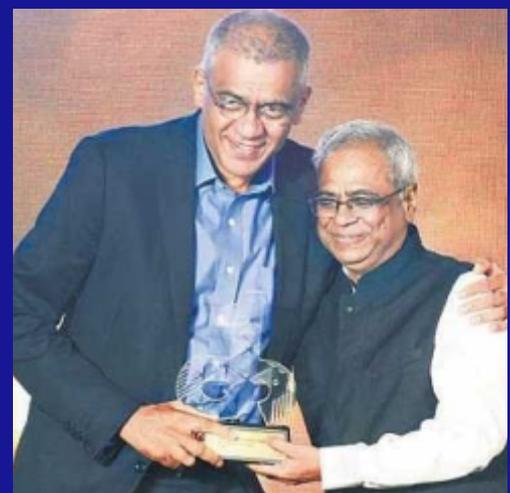
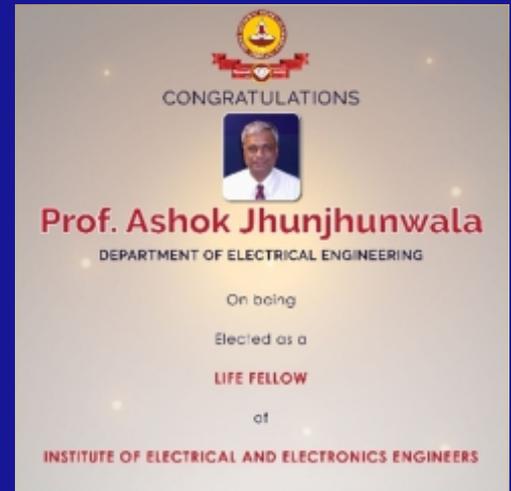
TIE conferred him the title of Dronacharya for his contributions to the cause of entrepreneurship, as he incubated and nurtured more than 200 companies at IIT Madras. He heads the IITM Incubation Cell and Rural Technology and Business Incubator (RTBI).

He leads the TeNeT group, which has worked closely with industry to create innovative affordable products in sectors like telecom, banking, renewable energy and electric vehicles. His strength has been in designing and developing products which are affordable to Indian people at large.

Dr. Jhunjhunwala has made numerous technology contributions, which impacted the lives of people in India over the last twenty-five years. Setting up of IIT Madras Research Park at Chennai, a nationally pioneering initiative to promote Industry-Academia R&D collaboration.

It has taken innovation to a new height as about 100 established industries and over 150 incubated startups work with IITM's faculty and students within the innovation system of IITMRP.

All this has resulted in numerous cutting-edge products, technology and services, often overcoming barriers hitherto considered impossible to surpass, addressing critical problems of national and global importance. Additionally, Prof Jhunjhunwala was also instrumental in driving India's startup revolution and has incubated 200+ deep-tech companies, driving innovation and entrepreneurship across India and the region.





World's fastest growing economy India imports most of its oil and is also home to the world's 10 most polluted cities. While converting its transport to electric vehicles (EVs) is the obvious step for the country, the costs of EVs today, requiring considerable subsidies to become affordable and viable, is a bottleneck for its spread in India. Dr. Jhunjhunwala and his group, including several incubated spin-out companies, have come up with multiple innovations to overcome this challenge.



As large number of Indian homes consume only about 0.5 to 3kWh of electric energy in a day (as opposed to 20 to 100 KWh in a developed economy), he has invented a solar-DC technology which uses a rooftop solar supplement with the grid to directly provide DC power in homes. This was to bring highest efficiency in situations where every Watt of power matters. Solar produces DC power, battery is charged using DC power and gives out DC power and most appliances like lights, fans and electronics uses DC power today.

Eliminating frequent converters and associated costs and losses, Prof. Jhunjhunwala's team build a solar-DC product and its smaller size and weight has enabled such systems to provide power to close to 50,000 homes today in difficult terrains such as mountains and deserts, where power-grid is either absent or unreliable. This has played a major role in Indian Prime Minister's goal to deliver electricity to every home by Dec 2018.





# 1964 BATCH PROJECT HERITAGE CENTRE

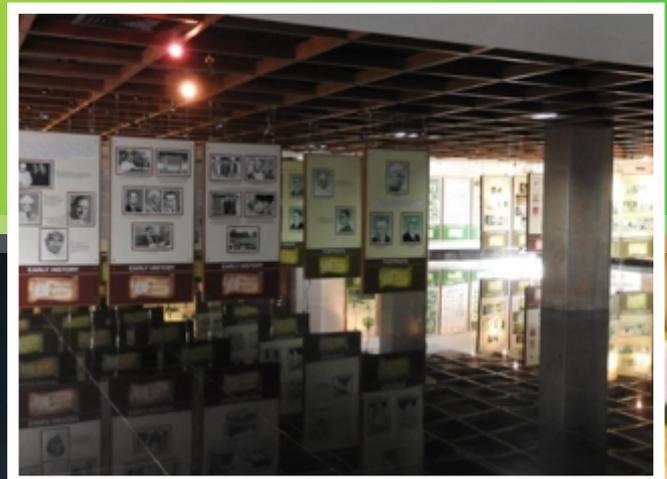
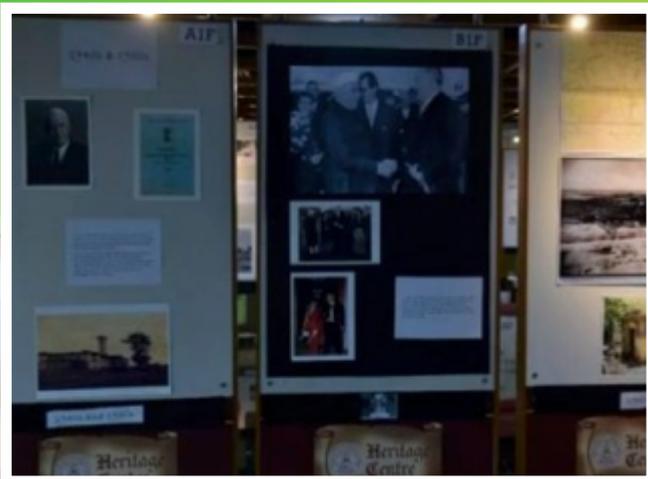
## Heritage Centre:

The Heritage Centre was formally inaugurated by Dr. Arcot Ramachandran, former Director IIT Madras on 3rd March 2006. The Centre is located on the ground floor of the administration building. The actual idea of a Heritage Centre was proposed in the year 2000 and it has become a reality due to the efforts of Prof. Ajit Kumar Kolar and his team. Prof. Nagarajan, who had earlier served for nearly a decade as Dean of Alumni Relations, is the current faculty-in-charge of Heritage Centre. He also Chairs the Department of Chemical Engineering at IIT Madras, and occupies the "Alumni Community Chair" sponsored by several alumni. The Centre functions as a repository of material of heritage value and historical significance of various facets of the Institute.

The exhibits include photographs, documents, publications, paintings, portraits, products developed and other articles. Information regarding important events, laboratory development, visits of important dignitaries, Indo-German cooperative activities, and academic achievements of faculty and students also are included. Aspects of IITM campus features and development, campus life and student activities are also included, thus broadening the scope of the Centre in the future to non-academic activities also.

For more detailed report

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# CHENNAI FLOODS 2015

The 2015 South India floods result from heavy rainfall generated by the annual Northeast Monsoon in November–December 2015.

They affected the Coromandel Coast region of the South Indian states of Tamil Nadu and Andhra Pradesh. More than 500 people were killed, and over 1.8 million (18 lakh) people were displaced.

They were among the most expensive natural disasters of the year. IIT Madras also contributed extensively to the relief and rehabilitation of Chennai Flood Victims.





# TREE PLANTATION AT IIT MADRAS

Indian Institute of Technology, Madras launched a Green Drive on its campus on September 1, 2017. The idea was to restore the green cover lost during the Cyclone Vardah in December 2016, because of which it lost 650 trees (non-native species).

The plantation drive was planned for implementation in two phases. The alumni of IIT Madras had vivid memories of greenery on the campus. The campaign launched by IIT Madras attracted around 150 first-time donors.

The saplings and trees were being sourced from the Agriculture Engineering College and Research Institute (Tamil Nadu) and Agricultural University located in Trichy. IIT Madras planted 600 trees in the first phase. According to sources, each tree would be at least 10 feet tall.

Some of the tree species included are: -Wood Apple, Maramalli, Arasan, Neem, Gulmohar, Mango, and many other varieties. Alumni of IIT Madras has played a vital role in contributing to the Green Drive. Our horticulture team at IIT Madras has been monitoring the growth of the saplings on a regular basis.



For more detailed report

[CLICK HERE](#)





# KEEP IT FLOWING

Keep It Flowing is a movement by our institute to seek contributions from IITM Alumni. These Benefactions are used to refurbish the hostels at IIT Madras. There are totally 20 hostels out of which twelve hostels are old but the structure remains strong.

As the fitments belong to a different era, it needs face-lifting and maintenance. The funds contributed by IITM alumni through the Keep it flowing campaign will be used for the face-lifting and maintenance work of hostels to contemporary standards. Providing infrastructure worthy of #1 Engineering Institute in India!

**Cauvery Hostel Renovation:** Cauvery hostel is the first hostel constructed in the year 1961 with a capacity to accommodate around 216 students in single occupancy. The hostel was further expanded during the year 2002 to accommodate additional 171 students. Since 2018, the rooms have been converted to double-occupancy rooms to accommodate around 750 students.

To view the video on Cauvery hostel transformation

[CLICK HERE](#)





# COVID-19 RELIEF FUND

The second wave of COVID-19 in India has struck close to many of us, people lost their lives due to lack of oxygen. In these testing times, our IIT Madras Alumni, have come together to raise a focused fund for breathing aids that can help stabilize people in the crucial hours when care can make a big difference. IIT Madras launched a campaign to raise funds for procuring oxygen concentrators in the United States of America. The Institute exceeded its goal of raising \$1 million in 48 hours. The Indian Institute of Technology (IIT) Madras Alumni in India and abroad have donated more than USD\$ 2 million towards COVID relief efforts in India that are being coordinated by their Alma Mater.

IIT Madras is using a phased approach for deployment to ensure a high impact of COVID-19 relief. The fundraising was coordinated by the Office of Alumni and Corporate Relations (ACR), IIT Madras, in association with IIT Madras Alumni Association of North America (IITMAANA), IITM Foundation in the U.S, Canadian friends of IITM and IITM UK Association. IIT MADRAS has been at the forefront providing research & aid support during the pandemic. The institute, alumni, researchers & faculty have been helping the government in various capacities from innovation in Health care research to fund raising drives for breathing aids. Few such initiatives were contribution of oxygen concentrators, BiPAP units and covid medical supplies to various state governments. The IIT-M Alumni Charitable Trust played a vital role in the logistics and in liaising with the local government. IIT Madras alumni working as senior executives with reputed MNCs were actively involved in evaluating and finalising the options available at various stages throughout the process.

## IIT Madras alumni help India fight COVID-19



Dr Jane Prasad, Registrar, IIT Madras, and other officials, handing BiPAP units to Chennai Corporation Officials



Contribution of oxygen concentrators to the Government of Karnataka



Prof Bhaskar Ramamurthi, IIT Madras director, handing over oxygen concentrators to Corporation Commissioner Gagandeep Singh Bedi



Contribution of covid medicines to the Sri Venkateswara Institute of Medical Sciences, Tirupati



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# WE ARE GRATEFUL TO YOU!

## Mr. MALLIK PUTCHA & FAMILY

Thank you for your sustained generosity to IIT Madras over the years. Contributors such as yourself enable our students and Professors to dream big and work towards a better and brighter future. We hope you are proud of your relations with IIT Madras and how it has remained steadfastly committed to academic and research excellence since the time of your connection. You and your family have been instrumental in facilitating this significant growth.

Our efforts to nurture the culture of academic excellence that is the hallmark of IIT Madras - quality education, cutting-edge research, and unfettered creativity shall continue. We are privileged and humbled to have you and your family walking with us along this trail. We wish you and your family the best always in all walks of life!



*Thank  
you  
so  
much*

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