



LV Prasad Eye Institute



# Activity Report 2019-2020

## **The story behind our cover page**

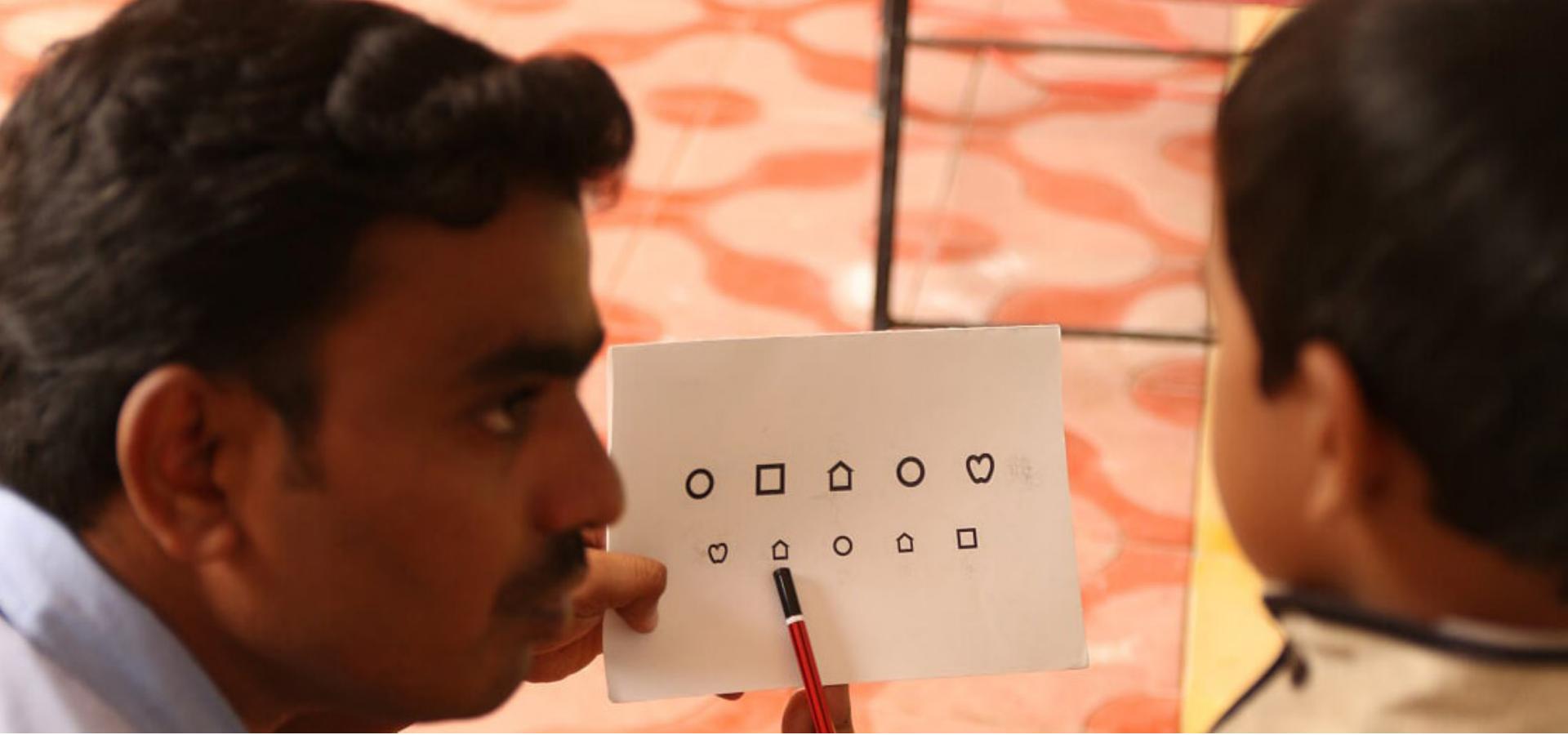
The gentleman on the cover page underwent a cataract removal surgery as part of LVPEI's Hyderabad Ocular Morbidity in Elderly Study (HOMES) project, funded by DBT/ Wellcome Trust India Alliance. Unfortunately, he met with an accident while on his way to our Hyderabad campus for post surgery follow-up, and was admitted to hospital. To ensure that he did not miss follow-up care, which is critical after cataract surgery, one of our doctors regularly visited him at the hospital. Later his second eye was also operated. "We were very happy to see him healthy and active at 80 years of age, when we visited him in the second phase of the HOMES project. He was equally happy to see us," recalls Dr Srinivas Marmamula who had led the HOMES project, and also clicked this picture.



**L V Prasad Eye Institute**



Established in 1987, L V Prasad Eye Institute (LVPEI), a World Health Organization Collaborating Centre for Prevention of Blindness, is working towards preventing needless blindness and vision impairment.



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# Records, Recognitions and Resilience

We had much to celebrate in 2019-2020 with new records, and many prestigious recognitions. The investments made in areas that were initially greeted with pessimistic predictions, have turned out to be a great source of pride.

Harvesting 100,000 corneas was the biggest milestone for our eye bank, coinciding with its thirtieth anniversary. Over thirty years of team effort, overcoming many challenges, has not only helped thousands of corneal blind but also catalysed a national movement in eye banking. We are indebted to everyone who contributed to this success.

Another area that faced pessimistic prediction was research. Javed Ali brought us yet another SHANTI SWARUP BHATNAGAR AWARD; two of our clinician-scientists earned PhDs; a first of its kind grant from the Wellcome Trust/ Department of Biotechnology India Alliance to set up a Centre of Excellence in Health Outcomes, Research and Economics led by Raja Narayanan in a multi-institutional collaboration; several other colleagues receiving National and International honours; and a record 395 papers published this year. We are happy to contribute to research capacity building in India, with our culture of research pervasive in all disciplines.

The Standard Chartered – LVPEI Academy for Eye Care Education is helping scores of youngsters build their professional careers. Innovative methods and leveraging technology have helped us train more ophthalmologists and optometrists. Outgoing resident Dr Sashwanthi Mohan secured the top rank in the National Board of Examinations, making us and her ophthalmologist-parents proud.

In patient care, Cornea faculty Muralidhar Ramappa initiated a new program 'Centre for Rare Eye Diseases' which will be a boon for many children.

In our rural health network, the twentieth Secondary Centre was inaugurated at Siddipet and the ground broken for another in Sircilla, with the respective local legislators and Ministers in the Telangana state cabinet playing pivotal roles in developing the centres. The foundation stone was laid for a Tertiary Centre in Kadapa by the Andhra Pradesh Chief



Gullapalli N Rao  
*Chair, Board of Trustees*

Minister, who is fully supportive of the project. Our team continued to work closely with the state government for the technical and training components in the state-wide eye screening programme in Andhra Pradesh. It is gratifying that the governments of all three states where we have our presence, give due priority to eye care. Primary Care Vision Centres continued to multiply with the numbers at 184 at year-end. A 'Mobile Diagnostic Van' housing high-end equipment and covering multiple Secondary Centres, is helping save costs of replicating these facilities in each Centre, and 'taking as much care as possible to the doorsteps of the people who need it most.'

'Capacity Building' for other organisations continued through our partnership with National and International organisations, with many eye hospitals being part of this mentee group.

The dissemination of our Electronic Medical Record (EMR) system, 'EyeSmart' and other products from Technology Innovation continued across the globe. In product development, the scleral contact lenses we produce in collaboration with Boston Foundation for Sight have become popular in India and a few other countries.

The Institute for Vision Rehabilitation is expanding on all fronts from simple counselling to job placements for our clients, while increasingly adopting technology.

Generous philanthropic gestures help consolidate and expand our work, and we are very grateful to the individuals and organisations that contribute generously.

In February 2020, we had the opportunity to serve the Rohingyas in the refugee camps of Cox Bazaar in Bangladesh. The team from six countries, led by Srinivas Marmamula, screened over 7000 people, and organized necessary services, including distribution of spectacles and other care through referrals. According to Srinivas, this was one of the most gratifying experiences he ever had.

While we almost ended the year on a bright note, the world was confronted by the biggest challenge of the century – the COVID-19 pandemic. This has blurred our vision for the near future, but I hope that the resilience our Institute has built over the years will lead us again to a brighter future soon.

# COVID-19 Preparedness

These are testing times and we are doing our best to fight the spread of coronavirus infection - a healthcare challenge like none before. Our utmost priority has always been - and continues to be - the safety of our patients and staff.

A big thank you to our many donors from across the globe whose generous support is helping us sail through these difficult times.

Stay  
Aware  
Prepared  
Innovative  
Safe  
Healthy

## Low-cost visor for health workers

### CITY BUREAU

Hyderabad

Joining the battle against coronavirus pandemic, a group of young researchers from the Hyderabad-based Centre for Innovation, LV Prasad Eye Institute (LVPEI), have developed a low-cost innovative indigenous visor, i.e. a full face protective gear, just for Rs 50.

The full-face protective gear is a transparent visor that is worn over the surgical mask to protect the entire face of the healthcare workers. The product, which was initially developed for LVPEI clinicians,



The full face protective gear has been developed by researchers from Centre for Innovation, LVPEI.

will now be made available to all, as the researchers decided to share the open-source file of their product

with other organisations. The team of researchers led by Sandeep Vempati, Project Lead at LVPEI Center

for Innovation, created a prototype of the visor in just four hours, made a manufacturable version of it the same day, and contacted vendors the next day, a press release said.

"Barely 48 hours later, the design of the product with a production cost of nearly Rs. 50 was ready for use," LVPEI researchers said.

Close to 250 such visors are already being used by LVPEI doctors and 500 of these visors have been manufactured for Fernandez Hospital apart from coordinating with vendors in Jhansi, UP, to make 150 visors for local military personnel.

(SEE PAGE 2)

Constantly innovating ways to provide safe and efficient care to patients

## Baby from Kerala treated for cancer at LVPEI

Power of social media and joint effort of Kerala and Telangana governments came to her rescue

### SPECIAL CORRESPONDENT HYDERABAD

The power of social media and the joint effort of Kerala and Telangana governments as well as many other committed healthcare workers and organisations ensured that baby Anvitha got her timely chemotherapy treatment for retinoblastoma at the L.V. Prasad Eye Institute here on Wednesday.

The baby, aged one year and nine months, hailing from Alappuzha, has been suffering from the life-threatening eye cancer and has been taking treatment at the institute. She was due for next cycle of intra-arterial chemotherapy when the lockdown happened.



Baby Anvitha with her parents. ■ ANURAG

vel to Hyderabad as patients that Mr. Vineeth took to so-

overwhelmed. My wife received a call from Health Minister K.K. Shailaja within a day of posting in the Facebook. She enquired about the baby's health and made arrangements, including permissions for our travel to Hyderabad and back by an ambulance with two drivers," he said.

#### 'CM enquired'

Mr. Vineeth had come to know later that Kerala Chief Minister Pinarayi Vijayan himself had entrusted the task to Ms. Shailaja on getting to know of the baby's health condition.

Anvitha and her parents reached Hyderabad on Tuesday and the baby successful-

would have put our daughter's life in danger. She is much better now and I want to thank each and every person who helped us," said a grateful Mr. Vineeth.

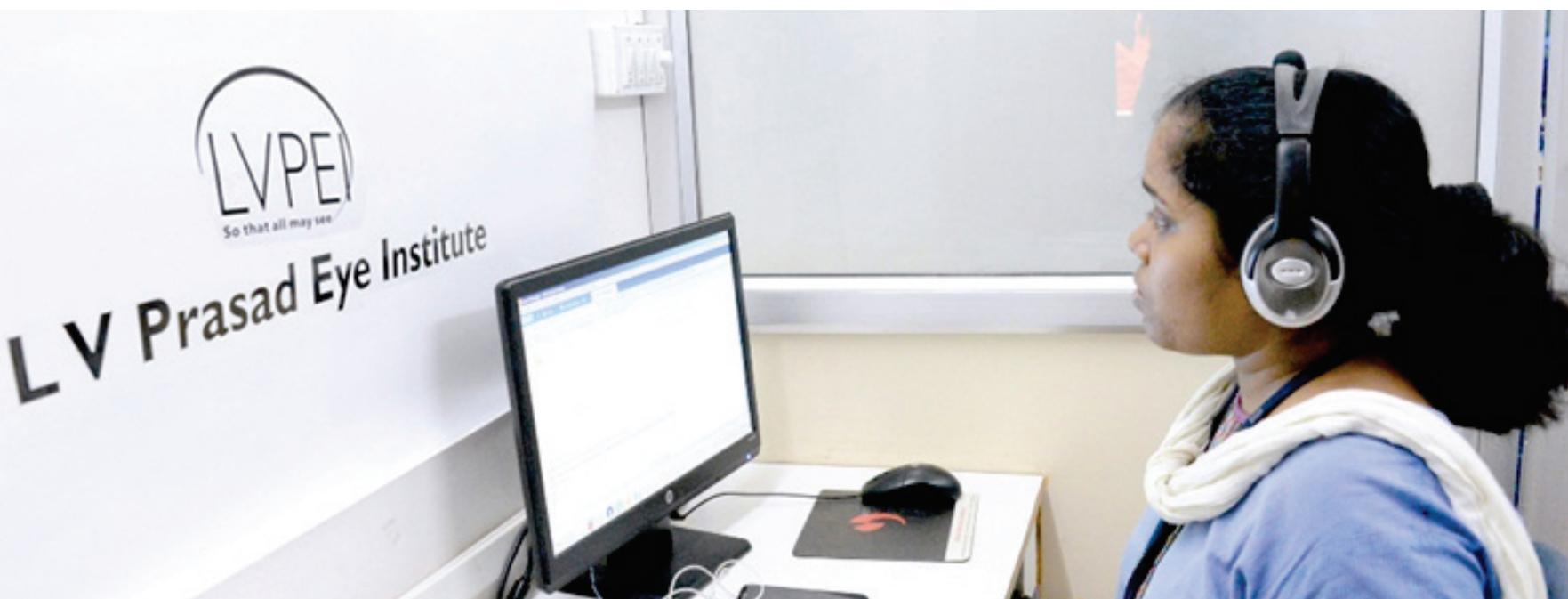
LVPEI head of eye cancer services Swathi Kaliki, under whose care Anvitha is, said there were good chances of the baby's eyesight to be saved as her condition was improving.

"Patients undergoing cancer treatment need close monitoring and it is critical to attend all the follow-ups. It is commendable on the part of the parents not to have given up hope because of the lockdown and on the part of several people rushing to their help," she said.

Continued to provide emergency care during the lockdown



*Defining new SOPs (Standard Operating Procedures)  
and maintaining the highest standards of hygiene to combat the spread of infection*



*Helping patients seek consultation with our doctors from the safety of their homes by initiating teleconsultation service*

## Functional Arms

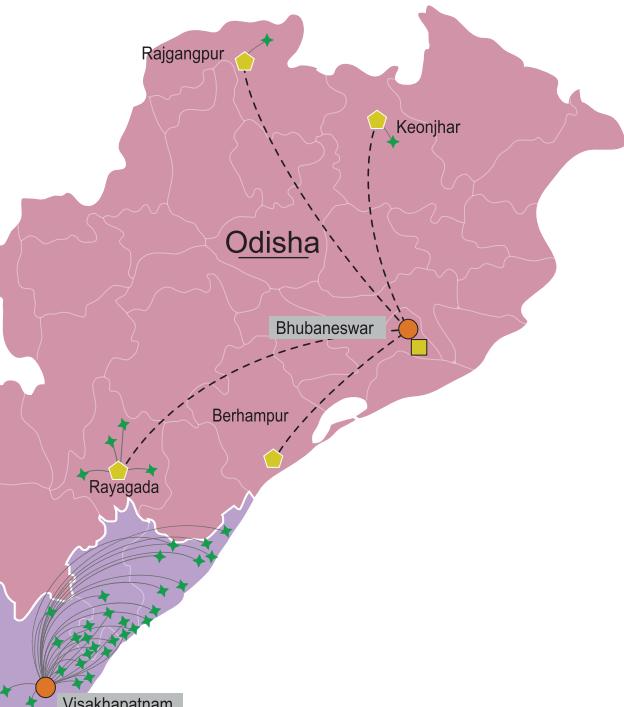
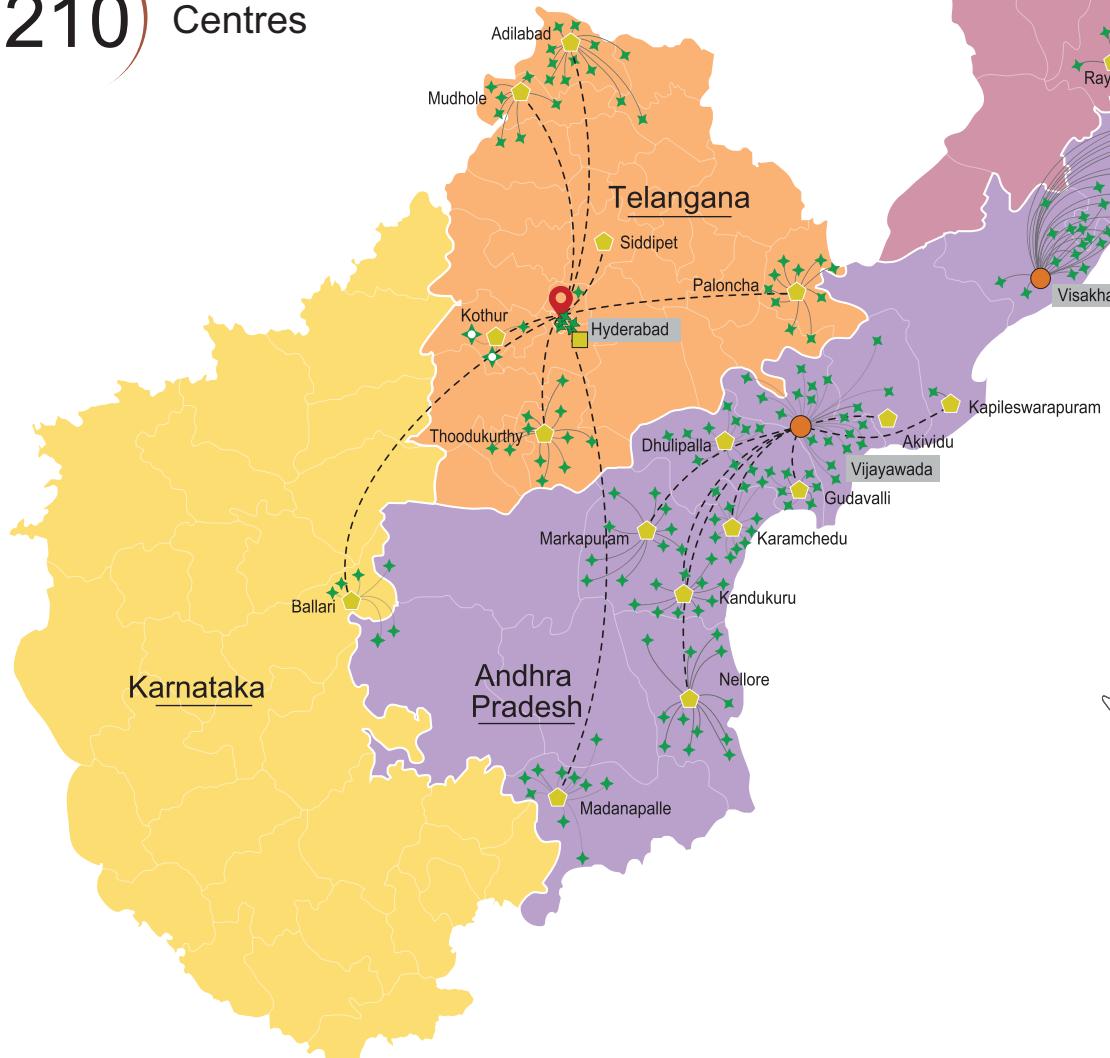


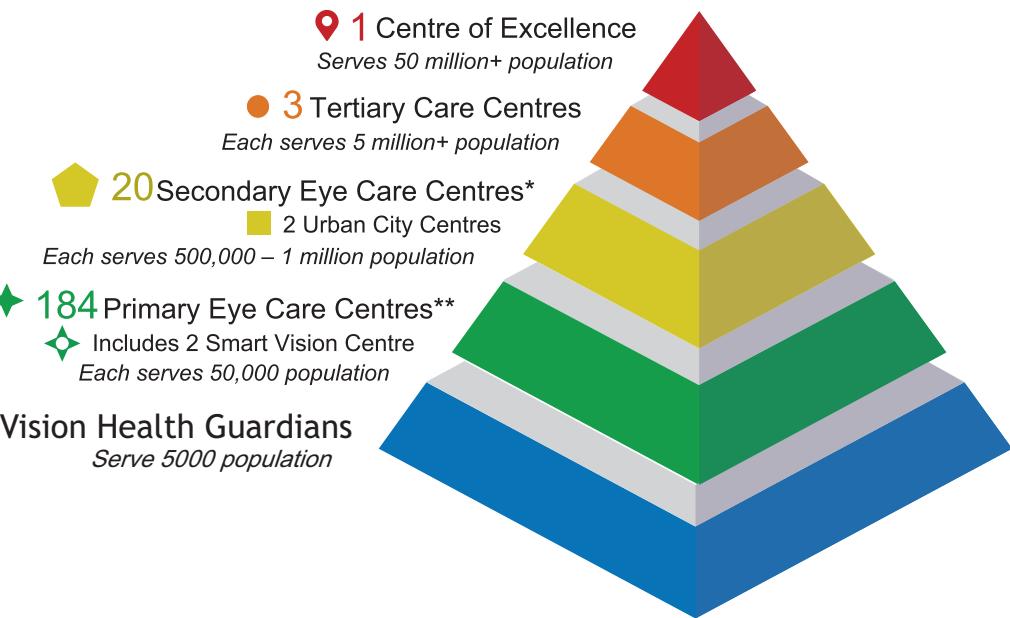
The ten functional arms of LVPEI evolved organically over the years. The original manifesto was clinical care, education and research. In keeping with the needs that emerged along the way, LVPEI developed other functional areas that include vision rehabilitation, eye banking, community eye care, innovation and product development, advocacy and capacity building. All these arms of LVPEI are interlinked.



# LVPEI Eye Care Network

210 Centres





As of March 2020, we have 184 Vision Centres, 20 Secondary Eye Care Centres, 2 Urban City Centres, 3 Tertiary Eye Care Centres and our flagship Centre of Excellence. Additionally, LVPEI has 9 Partner Centres and 1 Overseas Partnership in West Africa - the Liberia Eye Center in Monrovia.

\* Secondary Centres; \*\* Vision Centres



# Impact

1987 - March 2020



**30.64**  
million  
Total population  
reached

**50% plus services**  
**provided**  
**free of cost,**  
**regardless of**  
**complexity**



**105,448**  
Corneas  
collected



**58,957**  
Corneas  
distributed



**1.69** million  
Surgeries



**12.66** million  
Reached through  
community eye  
health initiatives



**0.186** million  
Rehabilitated



**26,179**  
Personnel  
trained



**1853**  
Innovative  
stem cell based  
procedures



**3029**  
Publications



**11,816**  
Villages reached



**51**  
PhDs awarded



**1**  
Patent granted



**4.46** million  
Children reached



**2019 - 2020**

**1,571,452**  
Outpatients

**161,551**  
Surgeries

**6183**  
Rehabilitated

**432,754**

Reached through community  
eye health initiatives

**10,924**  
Corneas collected

**6531**  
Corneas distributed

**109**  
Awards

**395**  
Publications

353 presentations

**4146**  
Trained

**1**  
Patent granted

**19**  
Hospitals supported through  
capacity building programs

**1132**  
Advocacy and awareness  
generation programs

# Awards and Honours

## Fourth Shanti Swarup Bhatnagar Award for LVPEI



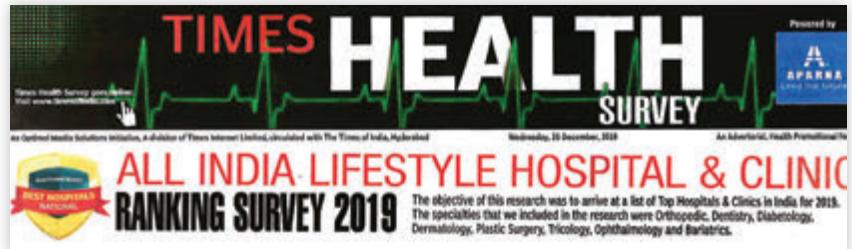
Dr Mohammad Javed Ali has been honoured with the prestigious Shanti Swarup Bhatnagar Award (Category - Medical Sciences), the highest multidisciplinary science award in India. This is LVPEI's fourth Shanti Swarup Bhatnagar Award.

## Mahatma Award 2019



Honoured with the Mahatma Award 2019 in the category - Social Good

## Ranked as the Best in Ophthalmology

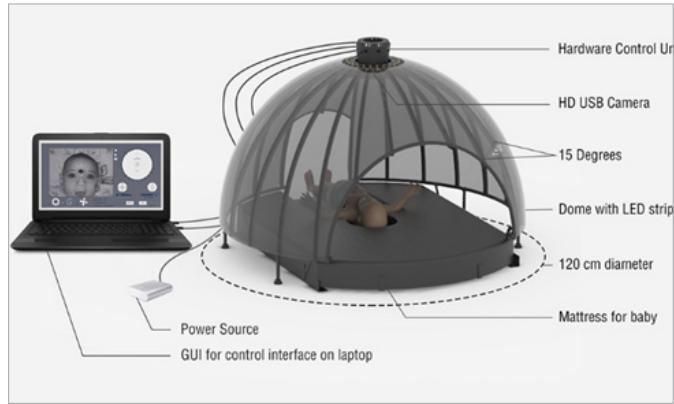


Times Health Survey 2019 ranked LVPEI Hyderabad as the Best Ophthalmology Hospital – at national, regional and city levels.



The Week-Hansa Research Survey for best hospitals ranked LVPEI Hyderabad, Bhubaneswar and Visakhapatnam as second, thirteen and fifteen respectively in the Ophthalmology category.

## First patent granted



The device developed to test visual fields in babies by the team led by Dr PremNandhini Satgunam, the pediatric perimeter, is LVPEI's first product to be granted a patent from the United States Patent and Trademark Office.

## Nasscom Tech4Good Healthcare prize



LVPEI OM (Order of Magnitude), an intelligent clinical vision screening device, has won the Nasscom Tech4Good Healthcare prize.

## Award for Eye Banking



Ramayamma International Eye Bank awarded the 'Dr AP Sah Memorial Rolling Trophy' for best performance by Eye Bank Association of India.



LVPEI campuses won several awards for sanitation, cleanliness, infection control and their beautiful gardens.

### **Mohammad Javed Ali**

- Member, Editorial Board, Current Eye Research
- Hong-Leong Professor, University of Singapore
- Member, Editorial board, Orbit
- Honorary Lifetime Member, Philippine Society of Ophthalmic Plastic and Reconstructive Surgery

### **Komal Agarwal**

- First Runner-up, Retina Brain Quiz, Asia-Pacific Vitreo-retina Society Congress

### **Ramam Atmakuri**

- Member, Board of Directors, Project Management Institute Educational Foundation

### **Oshin Bansal**

- Best Video - Special Interest Category, All India Ophthalmological Society conference

### **Sayan Basu**

- Paper as the lead author featured on the cover page of the prestigious British Journal of Ophthalmology

### **Soumyava Basu**

- Inducted as Member, International Uveitis Study Group

### **Sarforaz Bin Bashar**

- First prize in the 'Contact Lens and anterior segment photo contest', Contact Lens and Imaging Symposium

### **Umesh Chandra Behera**

- Received (a) 'Best Video - Anterior Segment Category' (b) 'Best Runners-up Video - New Surgical Technique', All India Ophthalmological Society conference

### **Mahesh Bharathi**

- Best Video Award, Glaucoma Society of India meeting

### **Subhabrata Chakrabarti**

- Inducted, Fellow of Association for Research in Vision and Ophthalmology

- Member, Professional Development and Education Committee and Member, Program Committee - Association for Research in Vision and Ophthalmology
- Elected General Secretary, Indian Society of Human Genetics

### **Beula Christy**

- Member, Advisory Council - Assistive product specifications, WHO

### **Taraprasad Das**

- Inducted 'Fellow', Academy of Asia-Pacific Professors of Ophthalmology
- Senior Achievement Award, American Academy of Ophthalmology

### **Sujata Das**

- Conferred with the D.Sc. (honoris causa) by the Ravenshaw University at Cuttack, Odisha

### **Vivek Dave**

- First prize, Retina Brain Quiz, Asia-Pacific Vitreo-retina Society Congress
- (a) Honoured as 'International Ophthalmic Hero of India' (b) Received the 'Certificate of Merit' for one of the best IJO publications in 2019-20 (c) His paper listed as one of the top 4 best 'Free Papers – Retina category', All India Ophthalmological Society conference
- Best poster Award, Vitreo-Retinal Society of India meeting

### **Tarjani Dave**

- Honoured as 'International Ophthalmic Hero of India', All India Ophthalmological Society conference

### **Preetirupa Devi**

- Best Paper Presentation Award, Indian Eye Research Group meeting

### **Avantika Dogra**

- Won (a) Second prize in the Ramana Rao Grand Rounds case presentation (b) Third prize in P Ramchandar Competitive Free Paper Session, Telangana Ophthalmological Society

### **Prashant Garg**

- Elected Director-At-Large, The Eye and Contact Lens Association
- Excellence Award in Cornea, Indian Society of Cornea and Keratorefractive Surgery

### **Prakhar Goyal**

- Best Video Award, Pediatric Retina Summit

### **Raghu Gullapalli**

- Member, Advisory Committee on Technology, OneSight Foundation

### **Dr Subhadra Jalali**

- Represented LVPEI at the Commonwealth Eye Health Consortium Five Year Meeting, London
- Delivered the keynote address, International Academic Conclave organized by the ACOIN (Association of Community Ophthalmologists of India) West Bengal State Chapter
- Special Recognition award by Aditya Jyot Foundation
- Delivered the Dr Salil Gadkari ROP oration, Poona Ophthalmological Society annual conference
- Delivered: (A) Keynote address (b) Invited lecture, Pediatric Retina Summit
- Bijayananda Pattnaik Oration Award, Vitreo-Retinal Society of India meeting

### **Deiva Jayaraman**

- Best Performance Award, Spastic Society of Tamil Nadu

### **Vineet Pramod Joshi**

- First prize for the 'Best Video' and runner-up prize for the 'Best paper presentation', Keracon meet, Cornea Society of India

### **Swathi Kaliki**

- Shakuntala Amir Chand Prize, Indian Council of Medical Research
- Section Editor - Ocular Oncology, Clinical and Experimental Ophthalmology

- Member, Editorial Board, Asia-Pacific Journal of Ophthalmology - Ocular Oncology and Pathology

### **Inderjeet Kaur**

- Invited to serve on the program committee of the first ARVO International-Pacific Rim meeting 2020

### **Rohit Khanna**

- Award for Outstanding Service in Prevention of Blindness, Asia-Pacific Academy of Ophthalmology
- Member, Technical Advisory Group for eye care interventions, World Health Organization
- Member, Advisory Board, HelpMeSee

### **Ramesh Kekunnaya**

- Member, Editorial Board, Current Eye Research - Pediatric section
- Keynote lecture, International Down Syndrome Conference
- Keynote lecture, Philippine Academy of Ophthalmology
- Appointed Visiting Professor, Manipal Academy of Higher Education

### **Vinodh Kumar**

- Grand Prize Posterior Segment Winner, photography contest, American Academy of Optometry

### **Dimple Sanjay Lodha**

- First prize in the Ramana Rao Grand rounds for case presentation, Telangana Ophthalmological Society

### **Anil K Mandal**

- Honoured as 'International Ophthalmic Hero of India, All India Ophthalmological Society conference
- Delivered the Dr A D Grover memorial oration, Chandigarh Ophthalmic Society meet

### **Srinivas Marmamula**

- Optometry Council of India Essilor Award 2019 for his contribution towards Public Health

- Member Task Force to provide technical support for 'Dr YSR Kanti Velugu project

#### Ashik Mohamed

- Mentor, Association for Research in Vision and Ophthalmology - Global Mentorship Program
- Elected Member, National Academy of Medical Sciences – India

#### Somasheila Murthy

- Elected Member, Scientific Committee, All India Ophthalmological Society (AIOS)
- Received the 'Narsing A Rao - Best Free Paper Award – Uvea Section', AIOS conference
- Best Poster Award, International Ocular Inflammation Society meeting
- Awarded (a) Gold Medal for poster presentation (b) Certificate of merit for video presentation, Telangana Ophthalmological Society
- 'Dr Carl Herbst Travel Award for Free Paper', Uveitis Society of India annual conference

#### Milind Naik

- Member, Editorial Board, Korean Journal of Ophthalmology
- Editorial Board, Journal of Cranio Maxillofacial Trauma and Reconstruction

#### Gullapalli N Rao

- Member of the eminent group appointed by Hon'ble Chief Minister of Odisha, Naveen Patnaik, to advise on the transformation of SCB Medical College and Hospital at Cuttack into a world-class institution
- All India Ophthalmological Society Instituted 'Dr Gullapalli N Rao - AIOS Endowment Lecture' to be delivered annually at the AIOS meeting
- Delivered the inaugural 'Prof L.P. Agarwal - AIOS Endowment Lecture' at

- the annual AIOS meeting in Gurugram, February 2020
- Inaugural TV9 Nava Nakshatra Award – medicine category

#### Jagadesh Reddy

- Awarded: (a) Best Paper (b) Delivered the Keynote Lecture - International Society of Manual Small Incision Cataract Surgeons - Biennial World Conference

#### Niranjan K Pehere

- Member, Pediatric Low Vision Rehabilitation Committee, American Association for Pediatric Ophthalmology and Strabismus
- Chair of the Faculty of Ophthalmology, Liberia College of Physicians and Surgeons
- Honorary Fellowship by the International Council of Ophthalmology
- Part of the task force working on Global Systems Programme on Developmental Disabilities (UNICEF/WHO), with focus on Infancy and early years Visual Impairment
- Led the team of experts working on developing national guidelines for managing children with cerebral visual impairment under Rashtriya Bala Swasthya Karyakram (RBSK), Government of India

#### Aishwarya Pillai

- Art for Inclusion Award, India Inclusion Foundation

#### Virender Sachdeva

- Awarded: (a) Second Best Poster Podium Presentation, Indian Neuro-ophthalmology Society meeting (b) Section Editor, INOS e-times, Quarterly magazine of Indian Neuro-ophthalmology Society

#### Jenil Sheth

- Awarded: (a) Best Poster (b) Best Paper Presentation, Indian Neuro-ophthalmology Society annual meeting

#### Swapna Shanbhag

- Received the 'AIOS-IJO Silver Award', All India Ophthalmological Society conference

#### Savitri Sharma

- President, Ocular Microbiology and Immunology Group - USA

#### S Shivaji

- Article on patients with fungal keratitis, ranked as the top 10% most cited PLOS ONE papers in 2018
- National Fellow, Zoological Society of Kolkata
- Nominated to the Academic Council of University of Hyderabad

#### Rebecca Sumalini

- Member, Advisory Council - Assistive product specifications, WHO

#### Vivek M Singh

- Awarded a certificate of merit for poster presentation, Telangana Ophthalmological Society

#### Tapas Ranjan Padhi

- Represented LVPEI at the Commonwealth Eye Health Consortium Five Year Meeting
- Awarded: (a) Best Paper (b) Best Challenging Case (b) Invited lecture - Indian Retinopathy of Prematurity Society meet

#### Bhavik Panchal

- Second Best Video Award, Asia-Pacific Vitreo-retina Society Congress
- Third Prize, photography contest, All India Ophthalmological Society
- Outstanding performance and Best Poster Award, Andhra Pradesh Ophthalmological Society

#### Krushna Gopal Panda

- Grand Prize Anterior Segment Winner, photography content, American Academy of Optometry

#### Mudit Tyagi

- Senior Honour Award, American Society of Retina Specialists
- Received the Best Innovation of the Year Award for his work on 'Fibrin Glue in Retinal Detachments', Vitreoretinal Society of India

#### Pravin K Vaddavalli

- Prestigious Rustom Ranji Oration on 'Corneal Transplantation 2020', Telangana Ophthalmological Society

#### Kavitha Venkatramanan

- Best Poster Presentation Award, Indian Eye Research Group meeting

**Raja Narayanan** (Principal Investigator) and **Anthony Vipin Das** (Co-PI) are part of the collaborative team to win the first of its kind Wellcome Trust - DBT India Alliance Clinical/ Public Health Research Center (CRC) grant for setting up a 'Centre of Excellence' in health outcomes, research and economics.

**Sayan Basu, Anthony Vipin Das** and **Pragnya Rao** - The lead team of the first big data study done in medicine in India on 'Dry Eyes'.

# Kallam Anji Reddy Campus

Hyderabad, Telangana

Being at the apex of the pyramid, we continue to lead in creating and disseminating knowledge, advocacy and planning, besides providing care for the most complex cases, including rehabilitative care. Our Ophthalmic Pathology Laboratory is now equipped with a highly advanced 'Digital Slide Scanner Facility', courtesy Mr Ahmed Abdulla Al Hameli and family from Abu Dhabi. This will enhance our research and training capabilities by helping us scan and store large volumes of tissue sections. To understand our unique comprehensive eye care delivery model, we had visitors from Singapore Management University, UCLA Anderson School of Management - California, and Senior Managers from various Public Sector Units in India. Several of our faculty won some very prestigious honours and made this a memorable year for all of us.



Prashant Garg  
Director



Outpatients  
**450,717**  
30%  
non-paying

2019-2020

Surgeries  
**73,242**  
36%  
non-paying

Surgeries  
**794,437**  
41%  
non-paying

Outpatients  
**6,173,632**  
29%  
non-paying

Till date\*

\*June 1987 (inauguration of the campus) – March 2020

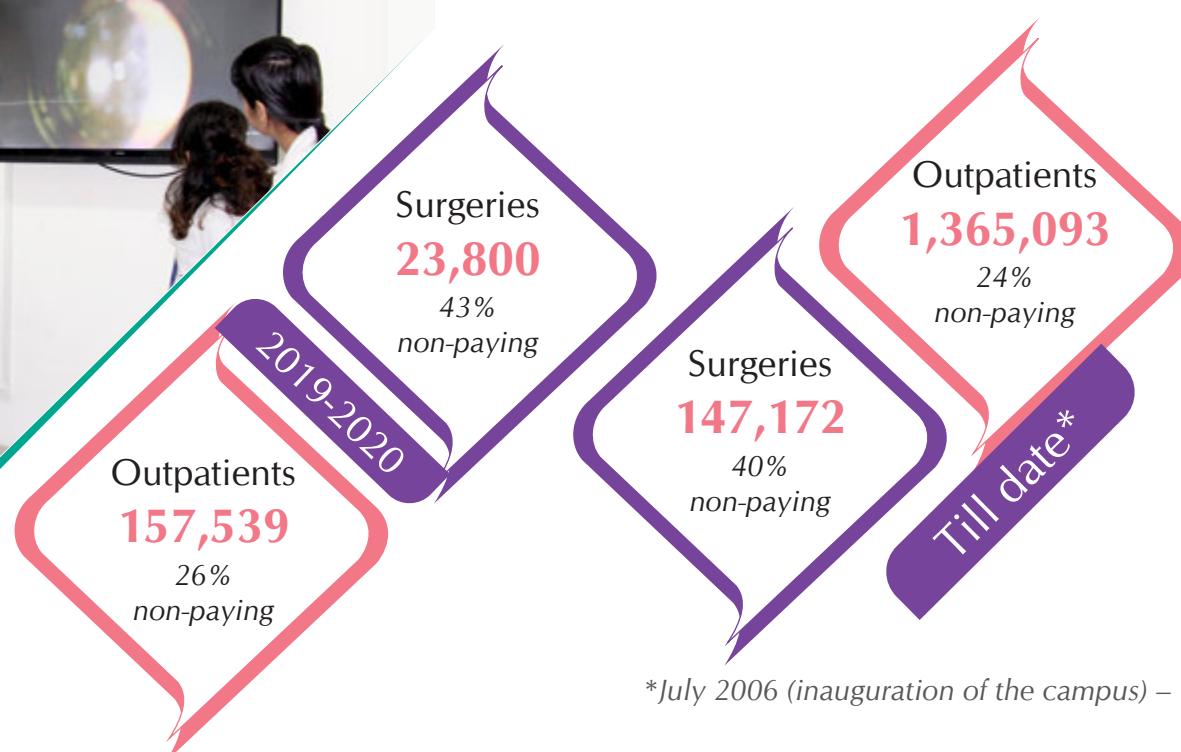
# Mithu Tulsi Chanrai Campus

Bhubaneswar, Odisha

The many new programs incorporating almost all the ten arms of LVPEI made 2019-2020 a milestone year. Decentralization of patient care with the City Centre at Lewis Road in Bhubaneswar was an instant hit, thanks to a quick turnaround time and after-hours service. The Residential Block at the campus, courtesy Wen Giving Foundation and Mission for Vision, will house around 150 trainees with 24x7 access to the library. 'Pashyantu – eye care on wheels' in partnership with the Odisha Mining Corporation is enabling us to take tertiary eye care closer to the people in remote rural areas. We touched over 10k lives with 'MyCyclothon' - a cause-related cycling event to raise awareness about Myopia in children.



Suryasnata Rath  
Director



\*July 2006 (inauguration of the campus) – March 2020

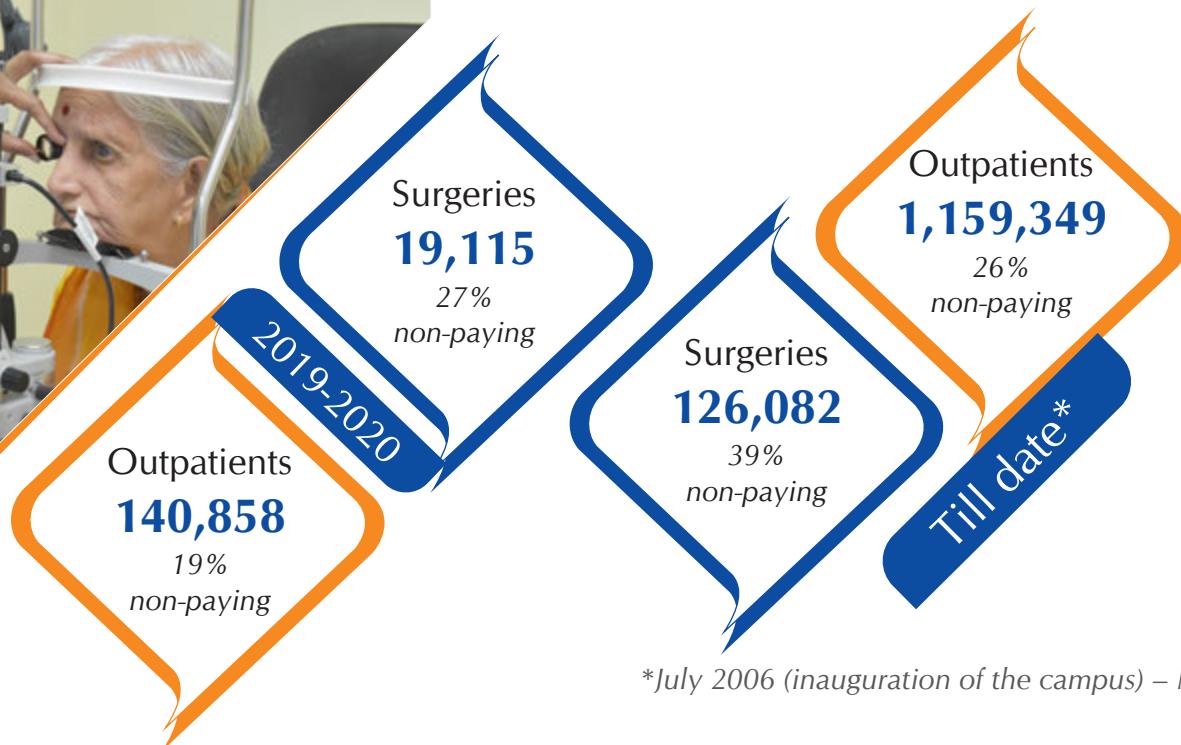
# GMR Varalakshmi Campus

Visakhapatnam, Andhra Pradesh

The year set off to a great start with the addition of new faculty, taking the total strength to 20. The infrastructure expansion included ten new OPD rooms, a pharmacy and an additional in-patient ward. The Opticals outlet shifted to swanky premises, with a refractive and contact lens unit appended, to benefit those with refractive error. But, what was most heartening was to see Mr Suri Babu of our Rehabilitation Computer Training Department win the coveted 'Employee of the Year Award' for his exemplary performance. Despite being visually challenged and hailing from a humble background, he had managed to graduate. A shining beacon of hope for all of us in our mission 'So that all may achieve their full potential'.



Merle Fernandes  
*Director*



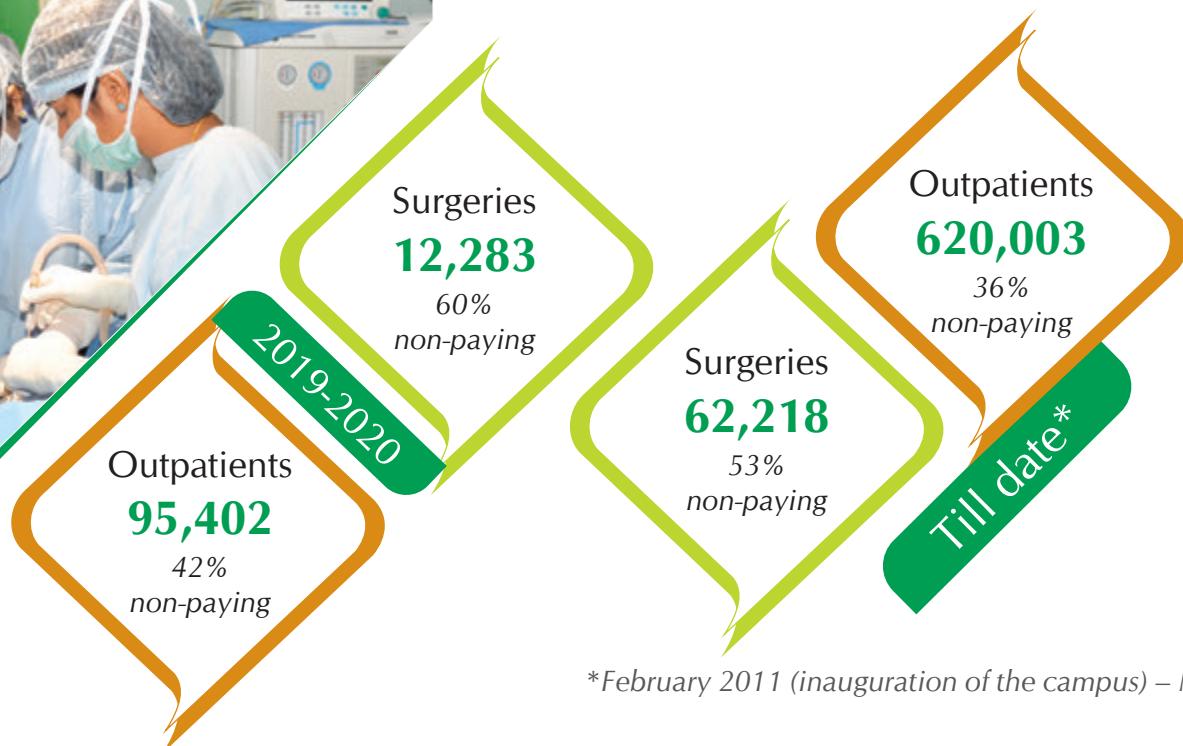
# Kode Venkatadri Chowdary Campus

Vijayawada, Andhra Pradesh

Thanks to the dedicated efforts of the team, the Vijayawada campus is now accredited by the National Accreditation Board for Hospitals & Healthcare Providers (NABH) for its quality standards and also received the Kayakalp certificate from Quality Council of India. This year we performed the first complex orbital surgery (decompression) in AP. Also, for eye care services not available in the state, we joined hands with the Government Hospital Vijayawada for screening premature babies for Retinopathy of Prematurity (ROP). For the unique mass-community eye health program initiated by the State Government, we helped in designing the program and also trained three batches of Paramedical Ophthalmic Assistants. In the coming years, we will continue our efforts towards making our society free of needless blindness.



Prashant Garg  
Director

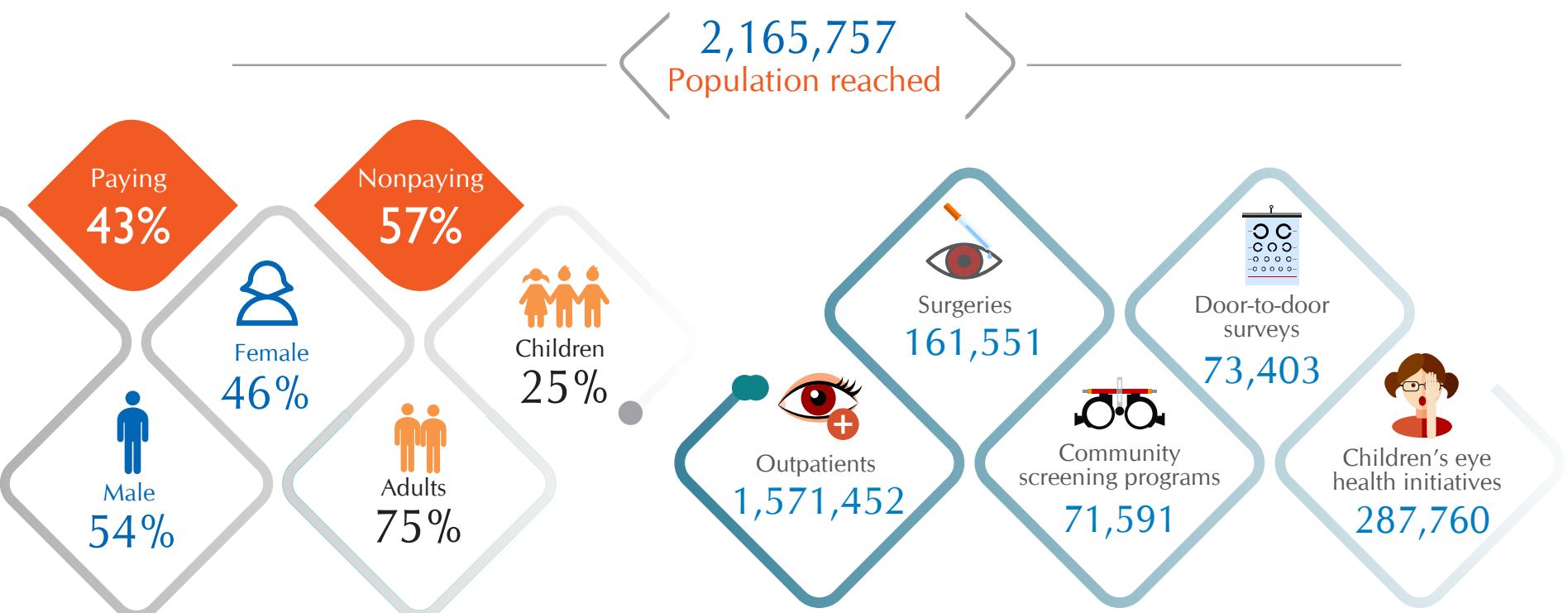


# Patient Care

The LVPEI's five-tier 'Eye Health Pyramid' model covering all sections of society right from the villages to the city, has been adopted by many countries across the world. The recently suggested 'Integrated People-Centric Eye Care' by the World Health Organization in their World Report of Vision emphasizes on providing quality, affordable and equitable eye care closer to the people. LVPEI has championed this model of care from its very inception. Four vision centres (serving a population of 50,000 people, 2 each in Odisha and Telangana), one secondary eye centre (serving a population of 500,000 people, in Telangana), and one City Centre (in Odisha) got added to our network this year. With a robust network of 184 Vision Centres, 20 Secondary Centres, 3 Tertiary Centres and one Centre of Excellence, we continue our work as a leading eye care provider.



Taraprasad Das  
Vice-Chair





## Foundation stone laid for a tertiary centre in Kadapa

To expand the reach of eye care services, the foundation stone for the Fourth Tertiary Eye Care Centre 'Dr Y S Rajasekhara Reddy Campus' at Kadapa in Andhra Pradesh was laid by Sri Y S Jaganmohan Reddy, Honourable Chief Minister of the state.

## Highly innovative first-of-its-kind surgery performed



First-of-its-kind Corneal re-innervation (Neurotisation) - an innovative surgery where a healthy donor nerve is transplanted onto the cornea of the patient's eye to re-establish corneal sensation, was performed at LVPEI. Six such surgeries were performed on a single day, involving interdisciplinary teamwork between corneal, oculoplastic and plastic surgeons. This will highly benefit patients who suffer from loss of corneal sensation which eventually leads to permanent vision loss for many of them, the cure for which was not available until recently.

## *From Taiwan to Hyderabad*



"Mama, you just had the bad luck to have a baby like this. Your child is born blind." Hearing this from the doctors in Taiwan completely shattered April, a young mother. She connected with Dr Ken Nischal in the USA. On his advice, she brought her son to LVPEI. Chin Yu was born with a very rare condition called 'Cornea Plana' where the cornea is flatter than normal. Correct diagnosis and treatment helped in restoring his vision.

It was heartening for us to hear April say, "For the first time since his birth, despite being thousands of miles away from home and communicating in a non-native language, at LVPEI I felt assured that my son was in safe hands. It is such a joy to see Chih Yu playing with his toys now. What is even more important is that my son can see me, something that I had even stopped dreaming about a few months ago."

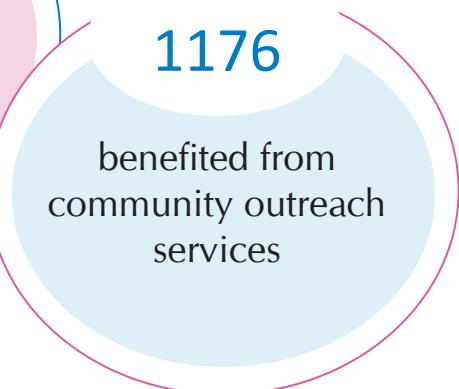
# Vision Rehabilitation

At the Institute for Vision Rehabilitation, we believe that people with vision impairment and blindness are active members of society and should get equal opportunities in terms of education and livelihood. Our centre-based and community-based rehabilitation programs cover every aspect of care for every age group. In line with the disability theme of this year 'Promoting the rights and well-being of persons with disabilities in all spheres of society and development', the majority of our efforts focused on economic empowerment of individuals and their families to be self-reliant. We also organized several state and national level advocacy meetings to collectively work towards the rights of people with disability. Going forward, we will be focusing on providing teleconsultation care to make our services available and accessible to a larger audience.

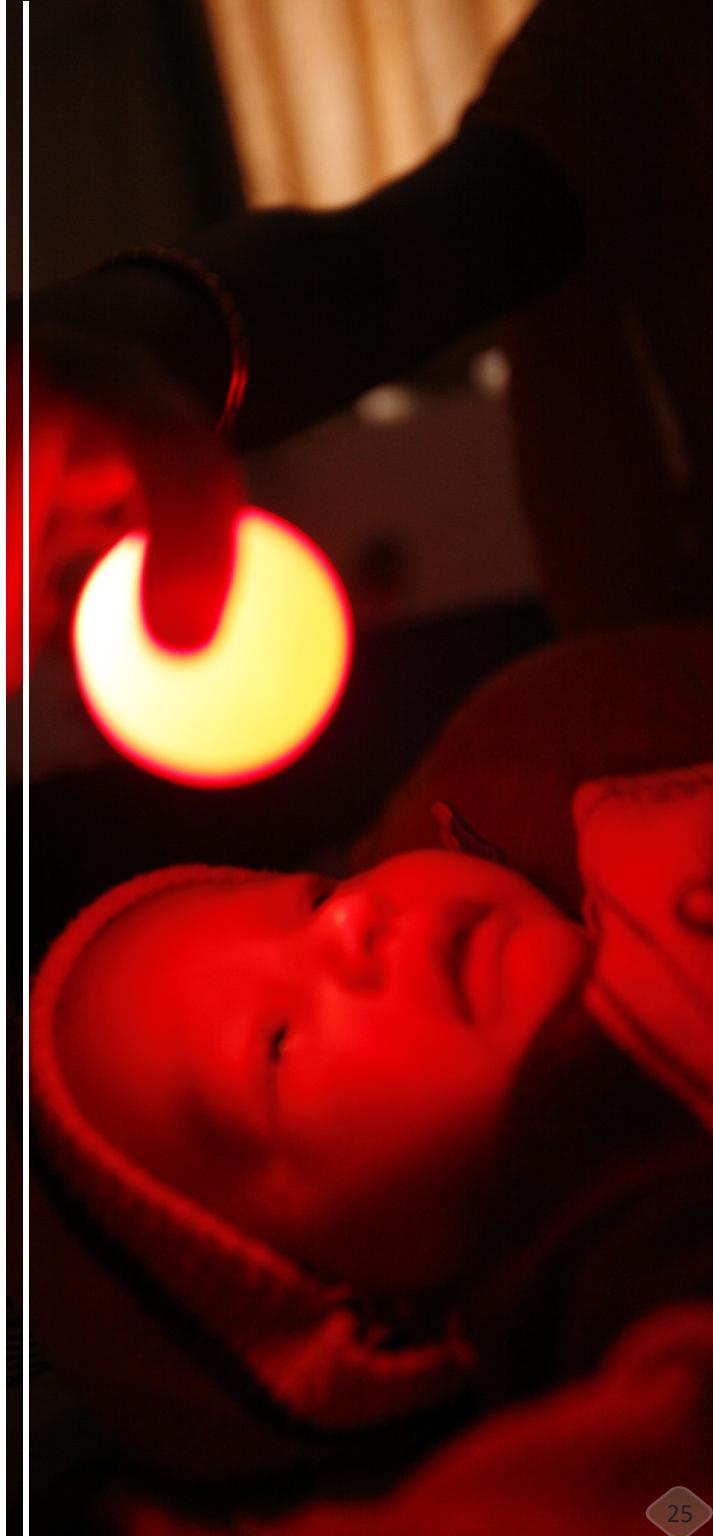


Beula Christy  
Head

— ( 6183 Rehabilitated ) —



1204	Children with developmental delays received therapeutic intervention through 16430 sessions
778	Queries on various disability issues resolved through 'HelpLine for the visually impaired'
111	Books in digital audio format were added to the library and accessed by 5500 people from across the country
657	Volunteers provided 4576 hours of service in the form of scribe writers, readers, audio recording of text books, etc.
77	Young adults trained in computer skills through assistive software
2648	Low vision devices were prescribed to persons with low vision to help them improve their functional activities; 81 people with disabilities empowered to be economically independent through self-employment and job placement
140	National and international professionals trained in low vision rehabilitation
53	Advocacy programs and events organized to promote the rights of people with disability
3055	Visitors sensitized on disability rights and needs through the 'Mobility and Sensory Integration Park'





People with print disabilities (reading and writing disabilities) were **trained in the various assistive technology options available for reading and writing** in partnership with Daisy Forum of India. Additionally, various programs on smart phone accessibility were also organized.



Various **capacity building and training programs** were organized. The focus was on skill-upgradation for low vision practitioners, special educators, rehabilitation professionals and trainees, optometrists and ophthalmologists.



A series of workshops and forums were organized for **young adults** to **educate and empower them on disability rights**.



Forty students with qualification in X or XII grade were trained in retail marketing and assisted in **job placement** in retail stores, courtesy **Sone Ki Chidiya Foundation (The Future Group)**.



Skills training in **sustainable livelihood trades** such as making jute, paper and cloth bags, jewelry, candle, home décor items, kitchen gardening, etc., is being provided through a community-inclusive approach to visually impaired clients and their family members.



As a finale to the series of workshops that were organized to train people with vision loss in tactile painting, a one-of-its-kind **Tactile Painting Exhibition** was organized. It had paintings from 16 talented artists and was very well received by the audience.



The integrated **summer camps** and **fun camps** provided ample opportunities for children with vision impairment to socialize and interact with their sighted siblings and friends in an inclusive environment.



The **Young Athletes Program** was organized in partnership with Bharat Special Olympics for children with special needs and multiple impairments to promote group play, improve self-confidence and communication skills.

# Rural and Community Eye Health

At the 'Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye Care (GPR ICARE)', with the launch of 'Futuristic Vision Centres' in partnership with Standard Chartered Bank, we moved from the conventional way of delivering primary eye care to a more technology-driven approach. Empowering local communities through various eye health initiatives and bringing eye care closer to their doorsteps has been our hallmark. Commencement of the mobile diagnostic van facility in the states of Andhra Pradesh and Odisha is one such example. Various children's eye health initiatives and community eye health projects were undertaken, one of them being the completion of the study that was done to understand the eye care needs of the elderly population residing in residential homes. All this has further accelerated our journey of achieving 'Universal Eye Care'.

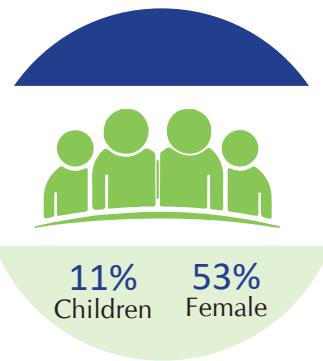


## Secondary Centres

**365,198** Outpatients

**33,111** Surgeries

36% outpatient and 55% surgical services provided at no cost to the patients



## Population reached through

Children's eye health initiatives **2,87,760**

Door-to-door surveys **73,403**

Community screening programs **71,591**

100% services provided at no cost to them

## Vision Centres

**361,738** Outpatients

100% outpatient services provided at no cost to the patients





The **Mobile Eye Diagnostic Van 'Pashyantu'** was flagged off by the honourable Chief Minister, Shri Naveen Patnaik. Supported by Odisha Mining Corporation, it aims to provide advanced diagnostic services closer to the communities in the state of Odisha.



The 20<sup>th</sup> Secondary Centre 'Krishna Sindhura Eye Centre' at Siddipet, courtesy Sri B Parthasaradhi Reddy - Chairman, **Hetero Foundation**, was inaugurated by Sri T Harish Rao, Hon'ble Minister for Finance, Government of Telangana.



Two **Futuristic Vision Centres** (or Technology enabled Primary Eye Care) were inaugurated in partnership with **Standard Chartered Bank**. The centres are equipped to detect chronic eye conditions that are currently beyond the realm of primary eye care. By the year 2023, 58 such centres will be opened across Andhra Pradesh, Telangana, Odisha and Karnataka.



Currently, there are 11 on-going public eye health projects encompassing geriatric eye care, understanding childhood blindness, disability inclusive community eye care and vision assessment of occupational groups.

## Tertiary care now in the realm of Secondary Centres - a new chapter in rural eye care



- 134 corneal transplants have been performed since March 2016
- Achieved the milestone of performing 100+ complex surgeries under general anesthesia; this facility was introduced in 2018 and the majority of patients were young children having cataract or squint
- Other sub-speciality surgeries like retina, glaucoma and oculoplasty are also being performed

## Traversing geographic boundaries - reaching the unreached



LVPEI in partnership with OneSight (USA) and Building Resources Across Communities (BRAC - Bangladesh) conducted an eye screening program in the Rohingya Refugee camp at Kutupalong in Cox Bazar in Bangladesh. This was a follow-up of a pre-screening done by the local partner for 7,000 people using LVPEI's eye screening protocols and 1,800 of them identified with eye problems were screened in this five-day long program. Many of them, including children, were identified with high refractive errors and were provided with a pair of glasses. Till then, they had been living with poor vision as any kind of medical care was beyond their reach and means. Working in these low-resource makeshift camps located in such difficult terrain was indeed a challenge. But equally rewarding was to watch their joy on being able to see the world far better after wearing the glasses for the first time.



Supported by AT&T, the Teleophthalmology Command Centre is located at Hyderabad Campus

- Teleophthalmology happens in real time through the in-house developed EyeSmart Electronic Medical Record (EMR) application
- Every Vision Centre (VC) is equipped with a tablet that enables live streaming of videos from the slit lamp
- On receiving a request from the Vision Technician at the VC, the doctors sitting at the command centre are able to examine the patients
  - Diagnosis, prescription of medicines, follow-up and surgical referral
  - Management of various simple to advanced eye conditions, ranging from conjunctivitis to eye cancers

#### Used for



#### Impact

**35,000+ teleconsultations** were conducted this year.

Of all the patients seen across the Vision Centres:

- 10% were managed solely through teleophthalmology care
- 22% were managed by prescribing appropriate medication
- 16% were referred for surgeries to secondary centres after being examined

The patients largely saved on the travel cost and time that they would have otherwise incurred by travelling to secondary centres

- LVPEI is an Institutional member of the Asia Pacific Teleophthalmology Society and the Telemedicine Society of India
- Additionally, three papers have been published by the team in peer-reviewed journals, highlighting the institute's teleophthalmology model of care

# Eye Banking

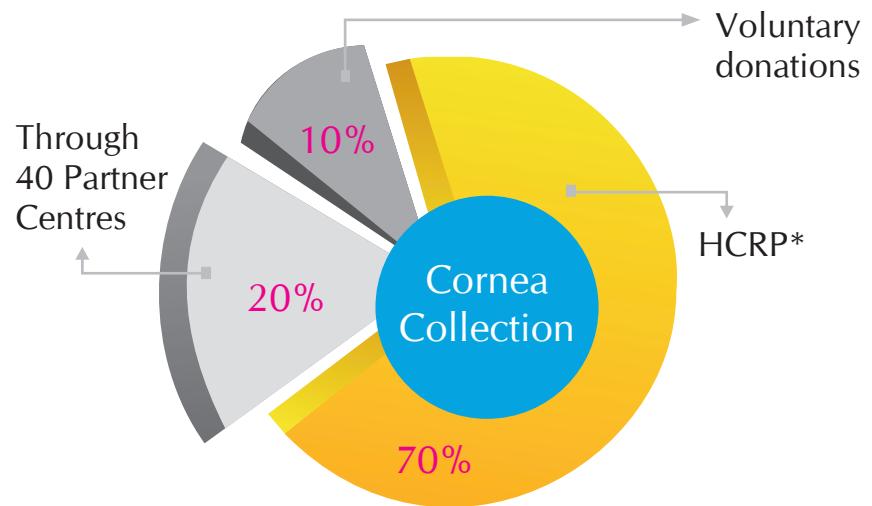
Since its inception in 1989, the LVPEI Eye Bank Network has achieved many milestones, the significant one being crossing the 1,00,000 mark in cornea collection this year. We have expanded the scope of our activities beyond our network and have partnered with The Hans Foundation for setting up Eye Banks in other states of India - where they are needed the most. Two of these Eye Banks have been set up in Rishikesh and Guwahati. Until now, we were using the software provided by SightLife USA to capture our eye bank related data. But now, with the help of the recently in-house developed eye bank software, we will be able to systematically capture data from all our Network Eye Banks and Partner Eye Banks going forward.



## 30 years impact



Corneas that are found unsuitable for surgeries, are used in training and research

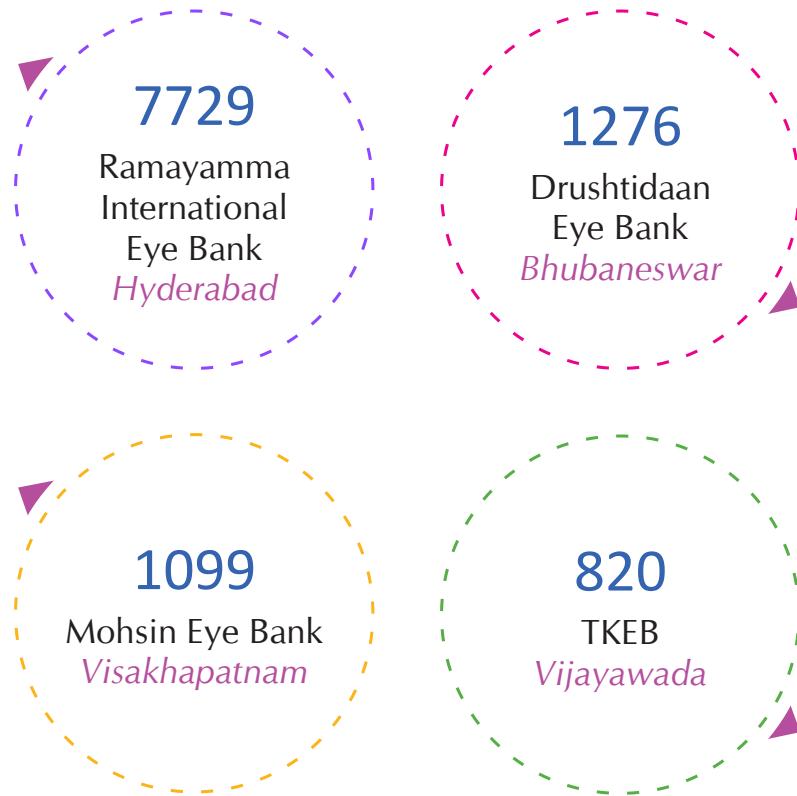


\*Hospital Cornea Retrieval Program (HCRP) was initiated in 1990 to focus on deaths that occur at hospitals and encourage eye donations by motivating the donor families. Currently, HCRP runs in 24 hospitals.

2019-2020



10,924 Corneas Collected



9914 Corneas Utilized

2910 distributed to LVPEI surgeons

3621 distributed to surgeons outside the LVPEI network

3383 used for training

The Eye Bank at AIIMS (All India Institute of Medical Sciences) in Rishikesh, India – a collaboration between LVPEI, The Hans Foundation and AIIMS - was inaugurated in August 2019.

154 corneas have been collected, out of which 61 corneas were used for transplantation.

*The construction of another Eye Bank in Guwahati in India is completed, but its commissioning is delayed due to the COVID-19 lockdown.*



*Three new Hospital Cornea Retrieval Programs (HCRP) were initiated at AIIMS, KIMS at Bhubaneswar and District Hospital at Sundargarh by Drushtidaan Eye Bank, and one new HCRP was initiated at Help Hospital, Vijayawada by TKEB.*



The **youngest** corneal transplant patient this year was a child aged 2 months and 6 days, and the **oldest** corneal transplant patient was aged 90 years.

*Corneal transplant surgeries increased from 20 in 1987 to 2877 in 2019. By March 2020, 37,331 surgeries were performed, possibly the highest at a single institute anywhere in the world.*

**McC Carey-Kaufman (MK) Medium**, a cost effective solution, is used for the storage and preservation of donor corneas at LVPEI. 31,620 vials of MK medium were produced and 28,525 vials supplied to Eye Banks in India and a few outside India.

**Amniotic Membranes (AM)** for ocular surface reconstructive surgery is also processed in-house. 2791 vials of AM were produced and 2608 AM supplied to surgeons within and outside LVPEI.



## Our Heartfelt Gratitude

to our cornea donor families, the Ramayamma family, Eyesight International, Synchrony Financial, The Hans Foundation, our partner hospitals and partner eye donation centres and several well-wishers for extending their whole-hearted support in our mission to eradicate needless corneal blindness.

**833 donor corneas were collected this year through partner centres listed below:**

Balaji Eye Care, Anantapuramu (2); Chiranjeevi Eye Bank, Hyderabad (10); DBCS, Nalgonda (6); Gowthami Eye Institute, Rajahmundry (8); Kamineni Institute of Medical Sciences, Narketpally (8); Lions Club of Godavarikhani Spoorthy, Godavarikhani (4); Lions Club of Mancherial, Mancherial (2); Lions Club of Ramagundam, Ramagundam (30); Lions Club of Suryapet Eye Hospital, Suryapet (20); Lions Club of Thorrur, Thorrur (14); Lions Eye Hospital, Khammam (2); Lions Eye Hospital, Bodhan (28); **Modern Eye Hospital, Nellore (55); Mullapudi Venkatrayudu Eye Center, Tanuku (14); Pavani Eye Hospital, Jagityal (4); Red Cross Eye Bank, Lions Club of Karimnagar Charitable Eye Hospital, Karimnagar (234); Sadashaya Foundation, Godavarikhani (2); Sai Jyothi Netradaana Foundation, Adoni (42); Santiram General Hospital, Nandyal (2); Smt. Rajeswari Ramakrishnan Lions Eye Hospital, Nidadavole (165); Sreelatha Modern Eye Hospital & Research Center, Chittoor (2); Sri YBR Murthy Konaseema Eye Bank, K. Pedapudi (6); Sudarsani Eye Hospital, Guntur (30); SVS Medical College & Hospital, Mahabubnagar (2); Swapna Nursing Home, Guntakal (18); The Khammam Eye Bank, Khammam (81); Kalyan Magatapalli Eye Donation Centre, Srikakulam(42)**

\*Highlighted are top five partner eye donation centres

### Testimonial



I prefer to get the corneal tissues that I need for surgeries from LVPEI because of the high quality of these tissues. Additionally, LVPEI also does a thorough job at packaging, paper work and other logistic arrangements.

**Dr Santosh Suman**

*Cornea Eye Hospital, Vadodara*

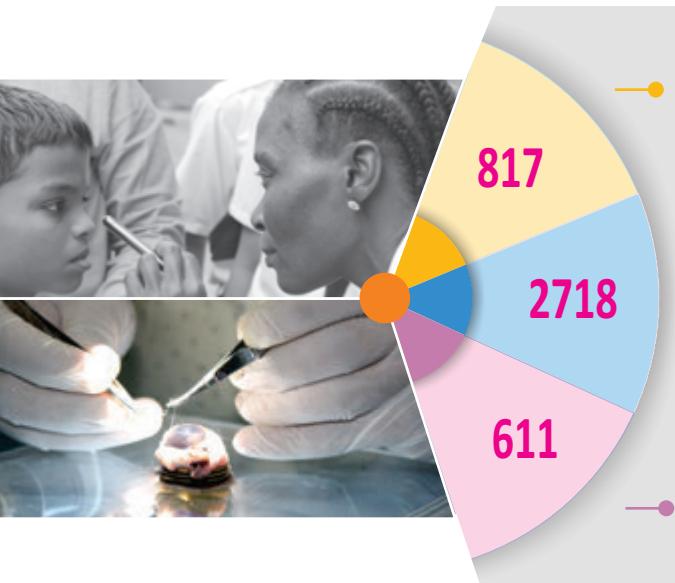
# Education

The student-centric Academy for Eye Care Education partnered with Standard Chartered Bank and ended the academic year of 2019-20 on the highest note ever. Through this partnership, we have evolved into a National Resource Center along with 10 other educational hubs in the country. To remain focused on our mission, we brought a set of dedicated ophthalmic educators under our wings. The next destination that we are marching towards is Digital Education for eye care professionals. Our aim is to empower our students with six important skill sets - learning, observation, curiosity, critical thinking, presentation and leadership - thereby facilitating and driving home the concept that learning is a lifelong process.



Avinash Pathengay  
*Director*

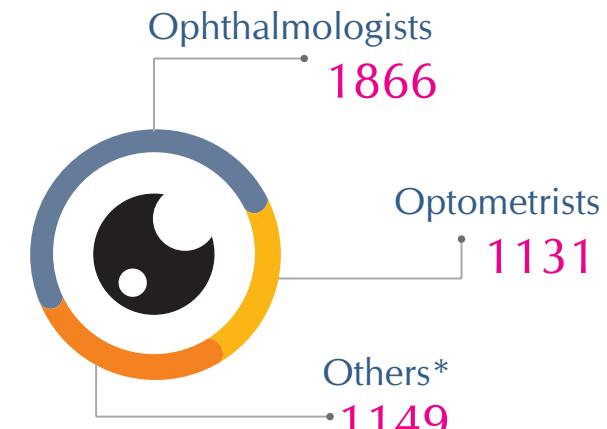
## Trainees trained



Long-term and short-term education programs  
**776 National    41 International**

Continuing Medical Education (CME) and Continuing Professional Development (CPD) programs

Online initiatives



*Others\* - training provided in Eye Banking, Community Eye Health, Low Vision and Vision Rehabilitation, Ophthalmic Nurse Assistance and Vision Technicians' course*



Standard Chartered – LVPEI Academy for Eye Care Education inaugurated.  
The collaboration aims at developing high quality, pan India eye care education programs.

State-of-the-art **Ophthalmic Diagnostics Training Facility** encompassing five training laboratories: Biometry, Visual Field Examination, Anterior and Posterior Segment Imaging, Anterior Segment Photography and Posterior Segment Photography was inaugurated. 150 trainees have been trained so far.



The **Surgical Wet Lab** facility at LVPEI Hyderabad campus has been upgraded with ten fully equipped training stations. This has not only increased our training capacity, but will also support us in hosting surgical conferences.





Continuing Professional Development (CPD) programs for skill-upgradation were organized for various teams including patient care, biomedical and operation theatre technicians, finance, accounts, purchase, stores and security.

## Strengthening Digital Education



For larger reach and accessibility, the [LVPEI Digital Education YouTube Channel](#) and [Web Portal](#) were launched.



To produce online training content, including videos, the LVPEI Hyderabad and Visakhapatnam campuses are now equipped with modern video recording studios.

Dr Sashwanthi Mohan who had completed her DNB from LVPEI in 2019 was awarded the prestigious Dr G Venkataswamy Gold Medal for Ophthalmology.

*The award is given to the candidate who scores the highest marks in the country in the exams conducted by the National Board of Examinations for the degree of Diplomate of National Board (DNB) in Ophthalmology.*

“ LVPEI offered me a well-balanced mix of academics, clinics, surgeries and research, and I had amazing mentors. I also got some wonderful opportunities to publish and present my research work. The friends that I have made in LVPEI are more like family now.” Sashwanthi



# Guest Speakers and Faculty

## United States of America

- Dr Amit M Saindane  
Emory University School of Medicine, Atlanta
- Prof David Hunter  
Boston Children's Hospital, Boston
- Mr Manoel Carvalho  
Ms Sara Yost  
Boston Foundation for Sight, Boston
- Dr Christina Prescott  
Massachusetts Eye and Ear Infirmary, Boston
- Dr Deepak Shukla  
University of Illinois at Chicago, Chicago
- Dr Guillermo Amescua  
Dr Anat Galor  
Dr Darlene Miller  
Bascom Palmer Eye Institute, Miami
- Mr Neil Gomes  
Dr Brooke Salzman  
Thomas Jefferson University, Philadelphia
- Dr Ken Nischal  
University of Pittsburgh, Pittsburgh
- Dr Shobha Boghani  
University of Rochester Medical Center, Rochester
- Dr Jennifer Rose  
University of California, San Francisco
- Dr Todd Margolis  
Washington University School of Medicine in St. Louis
- Mr Jay Kannaiyan  
Biker-cum-adventurer-turned coder, Texas

## Canada

- Dr Asim Ali  
The Hospital for Sick Children, Toronto
- Dr Peter Dolman  
The University of British Columbia, Vancouver

## Hong Kong

- Dr Kam Ka Wai  
Prince of Wales Hospital, Sha Tin

## Mexico

- Dr Denise L Garcia  
Southwestern Eye Center, Lake Havasu City

## United Kingdom

- Dr John Dart  
Moorfields Eye Hospital, London

## India

- Dr Purvasha Narang  
LJ Eye Institute, Ambala
- Dr Jayesh Vazirani  
Excel Eye Care, Ahmedabad
- Dr Jyoti Matalia  
Dr Swaminathan Sethu  
Dr Rohit Shetty  
Dr Sharon D Souza  
Narayana Nethralaya, Bengaluru
- Mr Sharad Kumar Tekalkote  
*Stroke Survivor and Motivational Speaker,*  
Bengaluru
- Mr Rajesh Prabhakar Patil  
Panchayathi Raj and Drinking Water  
Department, Govt of Odisha, Bhubaneswar
- Dr Gitanjali Batmanabane  
All India Institute of Medical Sciences, Bhubaneswar
- Dr Sumita Agarkar  
Dr Shantha Acharya  
Dr Muna Bhende  
Dr Meena Lakshmi Pathy  
Dr Bipasha Mukherjee  
Dr Ambika Selvakumar  
Dr Meenakshi Swaminathan  
Sankara Nethralaya, Chennai
- Dr Swatee Vasant Halbe  
Apollo Speciality Hospitals, Chennai
- Dr Veena Noronha  
VRR Scan Centre, Chennai
- Dr Srinivas K Rao  
Darshan Eye Care and Darshan Surgical Centre,  
Chennai
- Professor V R Vijaya Raghavan  
Ophthalmologist, Coimbatore
- Dr Premanand Chandran  
Aravind Eye Hospital, Coimbatore
- Dr Shreyas Ramamurthy  
The Eye Foundation, Coimbatore
- Mr Sachin Gupta  
Ocularist Society of India, New Delhi
- Dr Ritin Goyal  
Insight Eye Clinic, New Delhi
- Dr Chirag Mittal  
Center for Sight, New Delhi
- Dr Vanathi Murugesan  
R P Center, AIIMS, New Delhi



# Research

Unravelling the biological basis of eye diseases and vision-threatening conditions at the cellular and molecular level is the single purpose and mission of the Prof Brien Holden Eye Research Centre (BHERC). So far, the team has significantly contributed to ocular biology, and BHERC has earned international recognition as a centre of excellence in ocular research. With the change of guard, Dr Sayan Basu, a cornea surgeon and a researcher, will lead BHERC to become the one-stop-centre for all eye care and ocular research, with special focus on translational research.

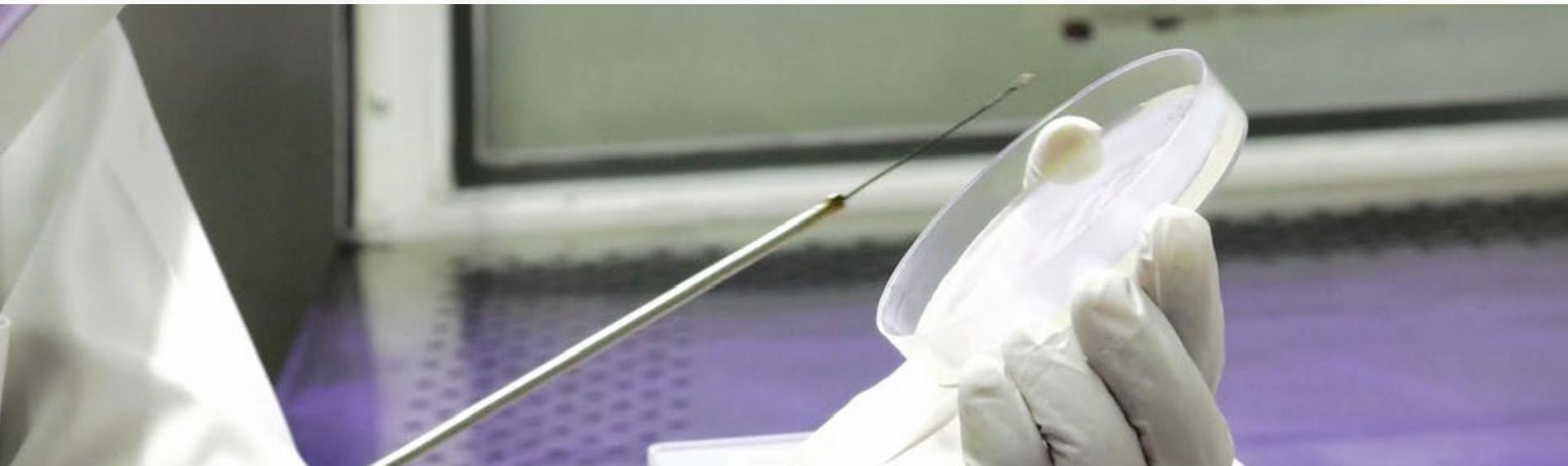


S Shivaji  
Director

395  
Publications

68  
Grants Received\*

3  
PhDs Awarded



\* Basic – 46, Clinical - 17, Public Health - 3 & Others - 2

## Impact Factor of Publications



### Publications with the highest impact factor

Incidence, demographics, types and risk factors of Dry Eye Disease in India: electronic medical records driven big data analytics report

**India on the brink of a dry eye disease epidemic, says study**

Age, urban residence, occupation and socio-economic affluence among risk factors

R. PRASAD  
CHENNAI

For the first time, a large-scale, hospital-based study in India involving over 14.5 lakh patients had found the incidence (number of new cases occurring each year) of dry eye disease to be 21,000 (1.46%). At over 12,500 cases, the incidence in urban areas was higher than in rural areas (over 8,700 cases). With a large ageing popula-

Early diagnosis and treatment is crucial. ■ SPECIAL ARRANGEMENT

A news article from The Hindu newspaper featuring a photograph of two healthcare professionals in a clinical setting. The headline discusses a study predicting a dry eye disease epidemic in India.

**Authors:** Pragnya Rao Dontineni, Priyanka Kammari, Swapna S Shanbhag, Vivek Singh, Anthony Vipin Das and Sayan Basu

**Publication:** The Ocular Surface Volume 17, Issue 2 (Pages 250-256); April 2019

*This study on Dry Eye Disease was conducted on 1.45 million patients and was LVPEI's First Big Data Study. It predicted that 45% or nearly half of India's urban population is likely to be affected by 'Dry Eyes' by the year 2030. It also identified the specific groups at risk of developing this condition.*

### Global Retinoblastoma presentation and analysis by national income level

**Authors:** The members of the Global Retinoblastoma Study (included LVPEI clinicians and researchers)

**Publication:** JAMA Oncology; February 2020

*The Global Retinoblastoma Study Group analysed more than half of all new retinoblastoma cases worldwide in 2017 and concluded that Retinoblastoma was most prevalent in children from low and middle income countries.*

**Retinal Detachment after Phakic Intraocular Lens implantation: A 10-year multicentre study**

**Authors:** Pukhraj Rishi, Yamini Attiku, Manisha Agarwal, Raja Narayanan, Dinesh Talwar, Bhaskar Srinivasan, Abhinav Dhami and Ekta Rishi

**Publication:** Ophthalmology Volume 126; August 2019.

**Comparison of rebound tonometry and handheld applanation tonometry in Pediatric Glaucoma with clear and scarred corneas**

**Authors:** Swathi Vallabh Badakere, Harsha I. Rao, Mohammad Hasnat Ali, Anil K Mandal, Nikhil S. Choudhari, G Chandrasekhar, Sirisha Senthil

**Publication:** Ophthalmology Volume 126, Number 9; September 2019

**A systematic investigation on complement pathway activation in Diabetic Retinopathy**

**Authors:** Shahna Shahulhameed, Sushma Vishwakarma, Jay Chhablani, Mudit Tyagi, Rajeev R. Pappuru, Saumya Jakati, Subhabrata Chakrabarti and Inderjeet Kaur

**Publication:** Front Immunol; February 2020





## Center for Excellence in Health Outcomes Research and Economics

An interdisciplinary team of researchers from LVPEI, IIM Ahmedabad and the Indian Institute of Public Health - Hyderabad have been awarded the Wellcome Trust/DBT India Alliance Clinical/Public Health Research Center (CRC) grant to set up a first of its kind Center for Excellence in Health Outcomes Research and Economics.

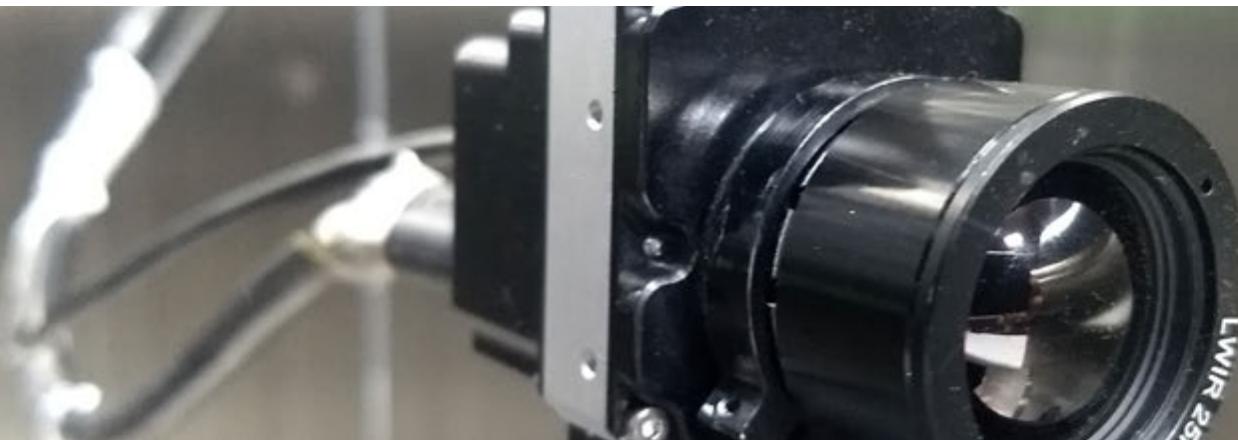
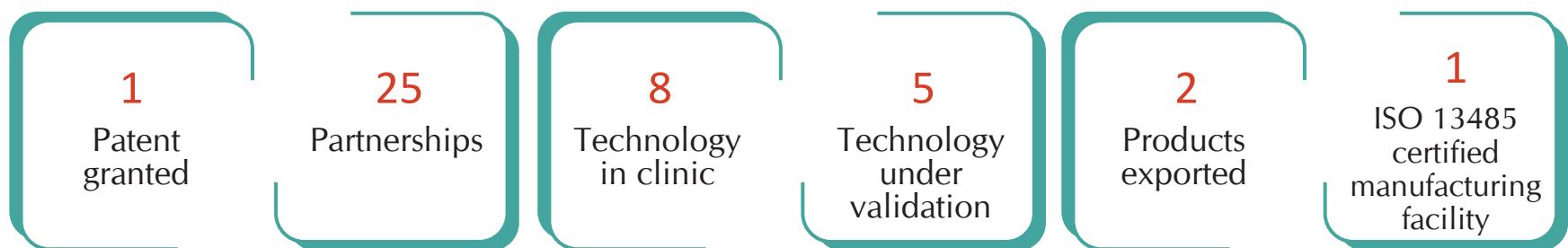
- From LVPEI, Dr Raja Narayanan is the Principal Investigator and Dr Anthony Vipin Das is the Co-Investigator for this project
- This unique collaboration has the potential to scale up the quality of eye research that will contribute to eliminating avoidable blindness in India and the South Asia region



[Research Day](#) was organized to foster exchange of knowledge and strengthen collaborative initiatives between the different labs. Dr Murali Dharan Bashyam - Head, Laboratory of Molecular Oncology, Centre for DNA Fingerprinting and Diagnosis, Hyderabad) was the Chief Guest and Dr Vidya Latha Parsam - Global Business Development Manager, Cyient Ltd, was the Distinguished Alumni Guest.

# Technology and Product Innovation

To realize our mission to prevent needless blindness, innovation at LVPEI focuses on the 4 'A's - Appropriate, Available, Accessible and Affordable. The LVPEI Center for Innovation has a multi-disciplinary team of ophthalmologists, optometrists, engineers and technologists. eyeSmart, an Electronic Medical Records (EMR) system developed by LVPEI and used across the network, went global besides being deployed in partner hospitals across India. We were able to save money through the deployment of indigenously re-engineered products at all our centres. Our scleral lens manufacturing lab received certification from the ISO 13485 quality management system. OM (Order of Magnitude), an intelligent clinical vision screening device won the Nasscom Tech4Good Healthcare prize. We will continue to upscale and deliver many more products to partners within India and across the world.



# Technology Innovation

*Our aim is to bring down the cost of healthcare, challenge gold standards and make high-quality eye care accessible to the community regardless of geographic and monetary challenges.*

## Major developments

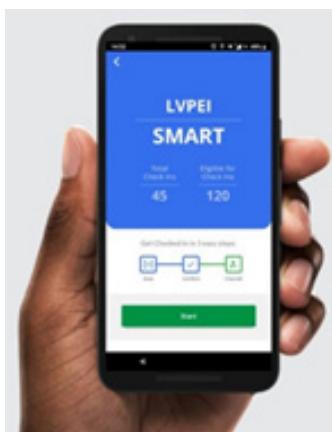
### Connected Care

**OM (Order of Magnitude):** Developed with support from Ms Lata Krishna (Co-Chair - American India Foundation) and AT&T, OM is an intelligent vision screening clinical device. Winner of the Nasscom Tech4Good Healthcare prize, OM is currently deployed at the Hyderabad campus, 20 rural secondary centres and 5 vision centres. 60% of those examined were women, highlighting LVPEI's commitment to 'Good health' and 'Gender equality' - two important UN Sustainable Development goals.

- «• Uses virtual reality to perform vision assessment
- «• Can detect more than 60% of the problems that lead to blindness, including glaucoma that is often missed during routine screenings
- «• 10 times faster and 10 times less expensive than the regular Visual Field Analyzers used for a vision assessment
- «• Easy to use and needs minimal training



Quick \_\_\_\_\_  
Intelligent \_\_\_\_\_  
Cost-effective \_\_\_\_\_  
Easy connectivity \_\_\_\_\_



### Patient-Centric Experience

**LVPEI Smart Card:** Introduced to help patients have a better experience by optimizing the value of their time spent at our centres. It is being pilot tested at the Hyderabad campus and is helping us in reducing the number of physical touchpoints within the clinical space for our patients, which is of utmost importance in the wake of the coronavirus outbreak.

- «• Provided to all patients via SMS or during their first visit
- «• Patients can do their self-check-ins, make online payments and access their medical reports and prescriptions
- «• Reduces the administrative burden by converting the existing paper based-task flow to a digital task flow

# Ophthalmic Engineering

The [LVPEI BostonSight Lens Manufacturing Lab](#), owing to its quality management system that meets the current global medical device regulatory requirements, has received the [ISO 13485 certification](#) by the BSI (British Standards Institution). This is a testament to our commitment to quality and patient safety. These scleral lenses are being offered to eye care practitioners and partner hospitals beyond LVPEI - for dispensing to patients.



Years of service



Partners (across India)



Lenses dispatched



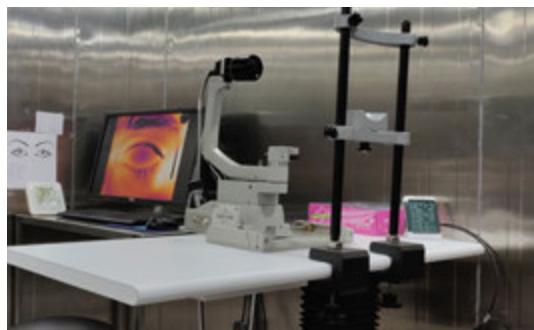
Satisfaction expressed by partners



[70 new in-house ophthalmic products developed](#) ranging from corneal viewing chamber for eye banking, surgical cameras for recording surgeries across the tertiary and secondary centres, LED lights for slit lamps to globe eye mount for education and training purposes, have been deployed across the network. This has brought down the overall cost of procuring and maintaining such products by 10 times, without any compromise on quality.



[Medtech Incubator:](#) The facility is used by hardware healthcare start-ups for getting their prototypes ready for clinical validation and regulatory submission. Currently, the clinical validation for the first incubated start-up is in progress.



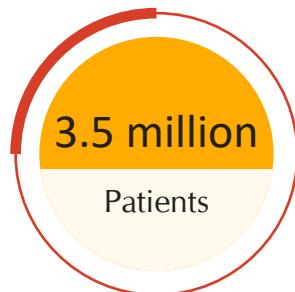
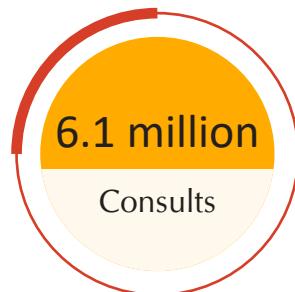
[Research:](#) Focus is on developing various imaging techniques to understand the structure and pathologies of the eye.

[Thermal Imaging Lab](#) - Optimizing the sensor hardware to detect different eye disorders with high sensitivity. These sensors perform five times better than other marketed sensors. Currently, ocular surface infections, dry eye and thyroid disorders are being studied.

[Adaptive Optics](#) - Adaptive optics techniques are being used to understand the early and hidden symptoms present in patients having glaucoma.

The award winning ophthalmic Electronic Medical Record (EMR) system and hospital management system is being used in all the 210 LVPEI centres and 31 partner hospitals spread across India, Liberia, Cambodia, Mexico and the Dominican Republic.

*Since inception in 2010*



*Major development of the year*

MoU signed with [Operation Eyesight Universal](#) to provide them eyeSmart EMR services across their 50 locations in 7 countries.



7500 patients are seen through EMR across all the 241 centres every single day.



The state-of-the-art eyeSmart EMR mobile App is integrating primary rural eye care and teleophthalmology consultation.



# Capacity Building

Through the project **Strengthening Capacity and Learning to Effectively Deliver Quality Eye Care (SCALE)**, in partnership with Seva Foundation, LVPEI is helping build the capacity of 14 hospitals across India.

*The average capacity of our partner hospitals since our intervention has increased by:*

237%  
Outpatients

379%  
Surgeries

268%  
Dispensing spectacles



In collaboration with **Standard Chartered Bank**, LVPEI is providing technical and learning support to the following hospitals to upgrade them as **Educational Hubs**.

- ▶ C L Gupta Eye Institute, Uttar Pradesh
- ▶ Chandra Prabha Eye Hospital, Assam
- ▶ MGM Eye Institute, Chhattisgarh
- ▶ Little Flower Hospital & Research Centre, Kerala
- ▶ Alakh Nayan Mandir Eye Institute, Rajasthan

*These hospitals will become important training centres in their respective states for eye care personnel across all cadres.*

As part of **community outreach initiatives**, LVPEI is supporting Jawaharlal Rohtagi Lions Eye Hospital in Kanpur, Uttar Pradesh, in establishing four Primary Eye Care Centres. Assistance was provided to them in terms of needs assessment, selection of location, procuring the right equipment and training the Vision Technicians.





**Training programs** were organized for Vision Technicians, Community Health Workers, Administrators, etc., from across the country to help them enhance their skills and deliver better care to the patients. One such important workshop was on: 'Tools & Techniques for Data Driven Decision Making'.

### Other highlights

- ▶ Provided assistance to Adinath Netrayala in Palitana, Gujarat, for the facility design of their centre, staff selection and training, and helped them develop the needed systems and standard operating procedures
- ▶ Provided support in assisting the facility design and construction of a secondary level eye care facility in Gaya, Bihar with support from Mission for Vision
- ▶ A team of Ophthalmologists and Ophthalmic nurses from Kakamega Government Hospital, Kenya, visited LVPEI to understand its eye care delivery model

### Impacting lives

Initiated in 1994, LVPEI till date has been able to support 207 national and 18 international hospitals through its various capacity building programs. It is always heartening for us when our partners share their impact stories with us.

One such story is that of Ramidevi who benefited from the community screening program organized by our partner JS Watmul Global Eye Hospital in Mount Abu, Rajasthan. She belongs to a tribal family of daily wage farming labourers. When she was no longer able to work due to her diminishing vision, she resorted to begging on the streets. She was diagnosed with cataract in the community screening program organized in her village and was later operated upon at no cost to her. Today, Ramidevi has resumed to work and is living a life of dignity.



# Advocacy, Policy & Planning

Universal  
Eye  
Health



Team LVPEI attended the WHO (World Health Organization) - South-East Asia Regional Technical Expert Group meeting on Universal Eye Health in Kathmandu, Nepal. LVPEI participants: Taraprasad Das, G Chandrasekhar, Rohit Khanna, Vijaya K Gothwal, Padmaja K Rani and BrijeshTakkar.



LVPEI has been one of the most active WHO Collaborating Centres for the prevention of blindness. The WHO South-East Asia Regional Office (SEARO) has been working very closely with them to implement various programs in training, teaching and policy planning in the region. It is our honor to collaborate with LVPEI in carrying out the Technical Expert Group meetings on Universal Eye Health and Glaucoma care. The Allied Ophthalmic Personnel training that was organized in Bhutan with their support deserves a special acknowledgement. We will continue to collaborate with LVPEI for prevention of blindness in the region and beyond.

**Dr Thaksaphon Thamarangsi**

Director, Healthier Populations and Non-Communicable Diseases  
WHO Regional Office for South-East Asia Region



# Advocacy at all levels



## International

- Dr Rohit Khanna: (a) Invited as an 'expert' to the various advocacy meetings organized by WHO  
(b) Is part of the International Agency for the Prevention of Blindness (IAPB) Board of Trustees and is invited as mentor for their various working groups
- Dr Taraprasad Das: (a) Is the Regional Chair of IAPB (b) Along with the WHO South-East Asia Regional Office, he works with the government of the eleven countries associated with it

## National

- Dr Taraprasad Das: Works with the Government of India as the President of VISION 2020 India - the Right to Sight program

## State

- LVPEI works closely with the state governments of Telangana, Odisha and Andhra Pradesh to provide primary eye care to the community and for policy planning
- Helped the state government of Andhra Pradesh in the planning and implementation of universal screening of all children and subsequent care
- Dr Taraprasad Das: Continues to work for Odisha Universal Eye Health Program 'Sunetra' focused on primary eye care and capacity building
- Dr Gullapalli N Rao: Is the member of the eminent group appointed by Hon'ble Chief Minister of Odisha, Naveen Patnaik, to advise on the transformation of SCB Medical College and Hospital at Cuttack into a world-class institution



The Countess of Wessex, Vice-Patron of the Queen Elizabeth Diamond Jubilee Trust (QEDJT), visited LVPEI to see the impact of the ROP program (Retinopathy of Prematurity) supported by the trust for the past five years in the States of Telangana and Odisha (in close collaboration with the respective state governments). LVPEI is an important partner for this program and in the past 21 years has screened 22,396 babies for ROP and treated 3365 babies.



A panel discussion of the members of Equitable Healthcare Access (EHA) Consortium of which LVPEI is also a member, was hosted at the Hyderabad campus on the topic: 'Ethics in the medical profession'.



'MyCyclothon - Better health, better sight', a cause-related cycling event, was organized in Bhubaneswar, Odisha, to raise awareness and funds for children with Myopia.

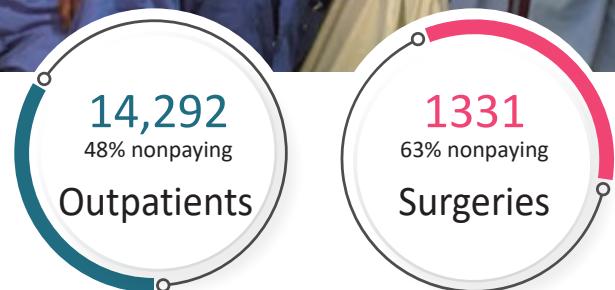
# The Liberia Eye Center

Managed by LVPEI, The Liberia Eye Center is located at the John F Kennedy Memorial Medical Center in Monrovia, West Africa. A dedicated team, the majority of whom are Liberians, is working towards providing sustainable and affordable world-class eye care to all Liberian citizens, irrespective of their ability to pay.



## Clinical Services

Complex surgeries such as corneal transplant, glaucoma, squint, oculoplasty etc., are now being performed at this center. The center has also started providing low vision services from this year.



## Community Outreach

To provide eye care to the community right at their doorstep, various school and community screening programs were organized.



## Training and capacity building

- For long term sustainability, the focus is on training eye care professionals across all cadres - doctors, vision technicians, nurses, etc.
- The robust high quality residency program is focusing on building a strong work force of skilled and experienced ophthalmologists.

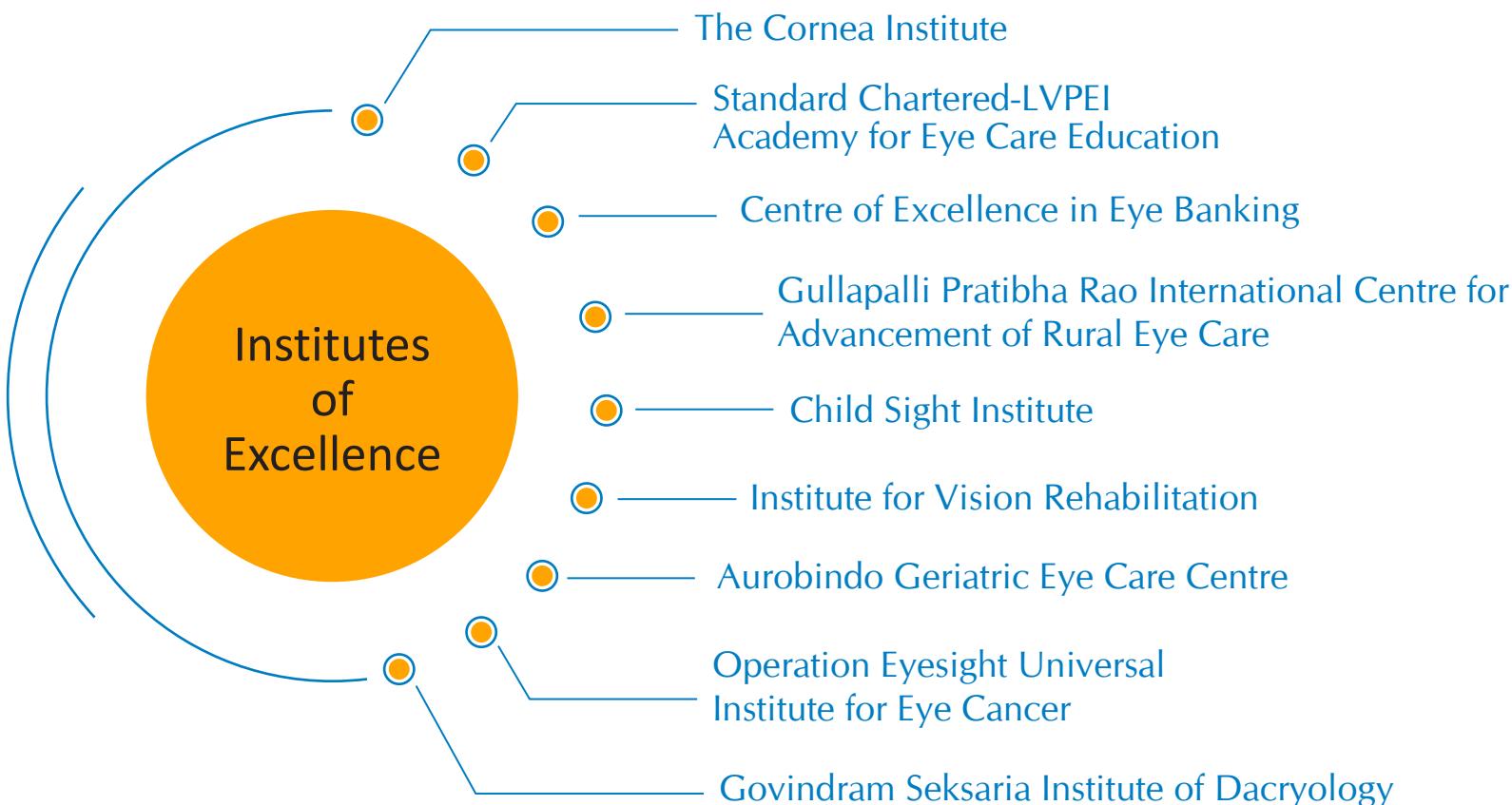
“We are one of the very few centres in West Africa to offer low vision services. A 44-year old school teacher, Mr Paul Solinto lost his vision partially in both eyes due to a weakening of the optic nerves. He could barely read and had to give up his teaching career for which he had worked very hard. As it was not possible to restore his vision through surgery or medication, our focus was on helping him optimally utilize his remaining vision. After a series of trial sessions with various low vision aids, we prescribed him with a 4x hand-held pocket magnifier. The joy on his face when he was finally able to read with the help of the magnifier was our ultimate reward. Wherever he goes now, his magnifier goes with him and he lovingly calls it his ‘second eye’. It is also heartening to know that he is slowly getting back to teaching.”

*Jonathan Copeland, Ophthalmic Technician*



Raising awareness about good eye care practices and engaging in other similar advocacy initiatives.

These **Institutes of Excellence** at LVPEI encompass care across the network - from primary to advanced tertiary care, education, research, public health, planning and policy.



LVPEI is also relentlessly working towards establishing:

- Institute for Regenerative Ophthalmology
- Retina Institute
- Glaucoma Institute
- The Center of Excellence for Rare Eye Diseases

Giving is not about making a donation, it is about making a difference!



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Lambda Therapeutic Research Limited, India	Mphasis Limited, India	Palle Rama Rao, India	Ramesh Chandra V Doshi, India
Lense Home, India	Murali K Divi, India	Pandrol Rahee Technologies Pvt. Ltd, India	Ramesh Kekunnaya, India
Letz Change Foundation, India	N Laxmi, India	Pankaj Jain, India	Ramesh Mantri, India
Lotus Wireless Technologies India Pvt. Ltd, India	Nalini & Ratnam V Mullapudi, USA	Parasakti Cement Industries Ltd, India	Rampion Eyetech Pvt Ltd, India
Lucid Medical Diagnostics Pvt. Ltd, India	Nalini Seksaria, India	Paresh Karia, India	Ranasaria Poly Pack Private Limited, India
Lyla & Ramchandar Rao Yerneni, USA	Narendra Kumar Mor, India	Parexcel International Clinical Research Pvt. Ltd, India	Rao Vallabhaneni, USA
M Sakuntala, India	Nasscom Foundation, India	Pershad Sanghi, India	Rashmi & Dinesh Chawla, USA
M V R Murthy / East Coast Development Foundation, India	National Litho Printers, India	Persistent Foundation, India	Ratna Tulasi & Dr B R Yelamanchili, USA
M V V Raja Sekhar, India	National Scheduled Castes Finance and Development Corporation, India	Personnel Search Services Pvt Ltd, India	Ravela Timbers, India
Maa Kuthari Charitable Trust, India	Nav Bharat Energy India Ltd, India	Pharm Aromatic Chemicals, India	Ravi Shankaramiah, India
Macquarie Global Services Pvt. Ltd, India	Nav Bharat Ventures Ltd, India	Pinnamaneni Poly Clinic, India	RCI Logistics Pvt. Ltd, India
Madanlal Patodia Charitable Trust, India	Nayudamma Foundation and Rural Development, India	Pinnamaneni Trivikrama Prasad, India	Regional Grand Lodge Of Southern India Charitable Trust, India
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Satish, India	Subhabrata Chakrabarti, India	Uma Rao & Ram Mohan Rao (N	Vijaychandra N Cantol, India
Satyam Enterprises, India	Subhadra and Subhash Kaul, India	Venkataswami Chetty Charitable	Vijaydurga Beverages, India
Shalini Rao & Justice M N Rao, India	Subia Roshan Baig, India	Trust), India	Vineet Kumar Lalani, India
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Shanta & Rajendra Prasad Challa, India	India	Union Bank of India, India	Vishnu Aromatics Limited, India
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Sohani Charitable Trust, India	Tear Lab Corporation, USA		
Somasheila Murthy, India	Tech Mahindra Foundation, India		
Sone Ki Chidiya Foundation, India	The Association for Research in Vision		
Sowjanya Kilaru, USA	and Ophthalmology [ARVO], USA		
Sree Padmavathi Venkateswara	The Davars & Unnavas Family,		
Foundation, India	Australia & India		

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Kalyana Lakshmi Tarumani  
Kamala Menon Cochran  
Kodakandla Akhil  
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Krishna Prema Kattirisetti  
L Hanumayamma  
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Lodge Ekram No. 45  
Lodge Engineers No. 336  
Lodge Keys 297  
Lodge Telangana No. 398  
M Bala  
M Govardhan  
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Nava Bharat Ventures Ltd  
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Sushmita Boppana  
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T Hanumath  
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Sukhavasi Rushmanth  
T Savithri  
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NARAINDAS MORBAI BUDHRANI TRUST

"TO BE HAPPY, MAKE OTHERS HAPPY"

## A Long and Fruitful Partnership

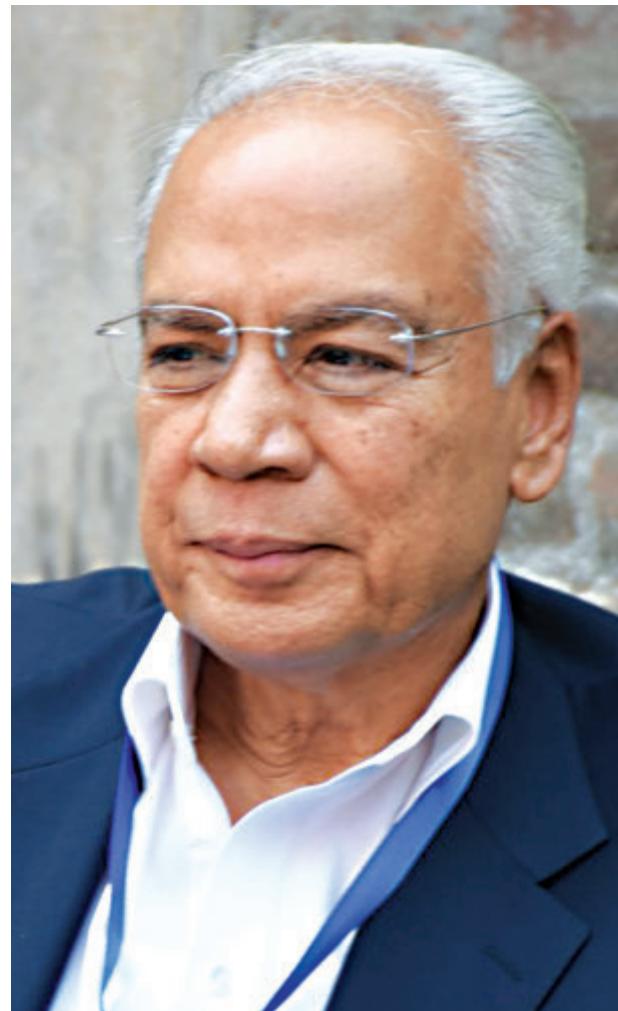
The LVPEI family has been privileged to receive continuous support from the Naraindas Morbai Budhrani Trust (NMBT) to expand eye care services in some of the most remote rural and tribal populations in the state of Odisha in India.

The partnership with NMBT started in 2015 with the opening of the Secondary Centre in the tribal district of Rayagada. In July 2019, NMBT committed their support for another secondary centre, and the foundation stone for the fifth Secondary Centre in Odisha in Balasore district was laid on 29 July 2019. Once operational, the centre will also serve the people in the surrounding districts in Odisha and West Bengal.

“ Eyecare has been an area of significant inspiration for NMBT since its inception. We have been immensely satisfied with the dedicated services provided to the poor tribal population residing in such difficult terrain through the Rayagada centre. Our hearts fill with joy when we see these people smiling after being successfully operated for cataract. This motivated us to extend this partnership and support yet another secondary centre. Following the principle of universal brotherhood is the only way to progress, as we believe - To Be Happy, Make Others Happy.

The COVID-19 pandemic might slow down the pace of this new project slightly, but all of us at NMBT wish LVPEI great success in its service to humanity in these difficult times. ♡

*Mr Devidas N Budhrani, Founder Trustee  
Naraindas Morbai Budhrani Trust*



# A shared vision for a brighter world



The generous support extended by Hetero Foundation, translated into the opening of LVPEI's 20<sup>th</sup> rural secondary centre 'Krishna Sindhura Eye Centre', located at Siddipet in Telangana. Thanks to their support, we will soon be opening another secondary centre at Sircilla in Telangana. This partnership is a testament to LVPEI and Hetero's shared vision of providing good quality, permanent and affordable eye care to rural India.

“ Being one of the leading generic drug manufacturers in the world and on a mission to bring high-quality medicines within affordable reach, community stewardship happens to be a natural and integral part of our business objectives. It is a cherished ideal which we have whole-heartedly embraced since our inception. Building state-of-the-art eye care centres for rural communities is one of our core CSR focus areas. The partnership with LVPEI is a major boost to our shared goal of facilitating world-class eye care for deprived communities. I am confident that together, we will be able to reach out to many more poor and aged people in rural communities and enable them to live a life of dignity, which otherwise is difficult in the absence of good vision. ”

*Dr Bandi Parthasaradhi Reddy, Chairman & Managing Director  
Hetero Drugs Limited*



## Homage

*Paying tribute to our dearest and much loved*

### **Dr Ramachandra Pararajasegaram**



A stalwart in the field of ophthalmology, especially community eye health, Dr Ramachandra Pararajasegaram was an iconic leader who truly ‘walked the talk’ with his extraordinary work and deeds.

Dr Para, as he was fondly called, was an excellent clinician, researcher, leader, and above all a great humanitarian. An integral part of the global crusade against needless blindness, he held several important positions, including leadership roles at the World Health Organization, International Association for Prevention of Blindness and International Council of Ophthalmology.

The [Ramachandra Pararajasegaram Community Eye Health Education Centre](#), at the institute stands testimony to the significant value addition made by him in developing this component as a very strong functional arm of LVPEI.

The LVPEI family has lost not only a great leader, but also a beloved friend, mentor, guide and well-wisher. We will forever cherish our strong association with Dr Para, and his life will continue to inspire us to do much more for the people of the community who were so dear to him.



# Boards of Management

## *Hyderabad Eye Institute*

### **Chairman**

Dr Gullapalli N Rao  
*Hyderabad*

### **Members**

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*Chennai*

Mr Ajit Rangnekar  
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## *Hyderabad Eye Research Foundation*

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*Hyderabad*

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*Hyderabad*

Prof D Balasubramanian (Ex-Officio)  
*Hyderabad*

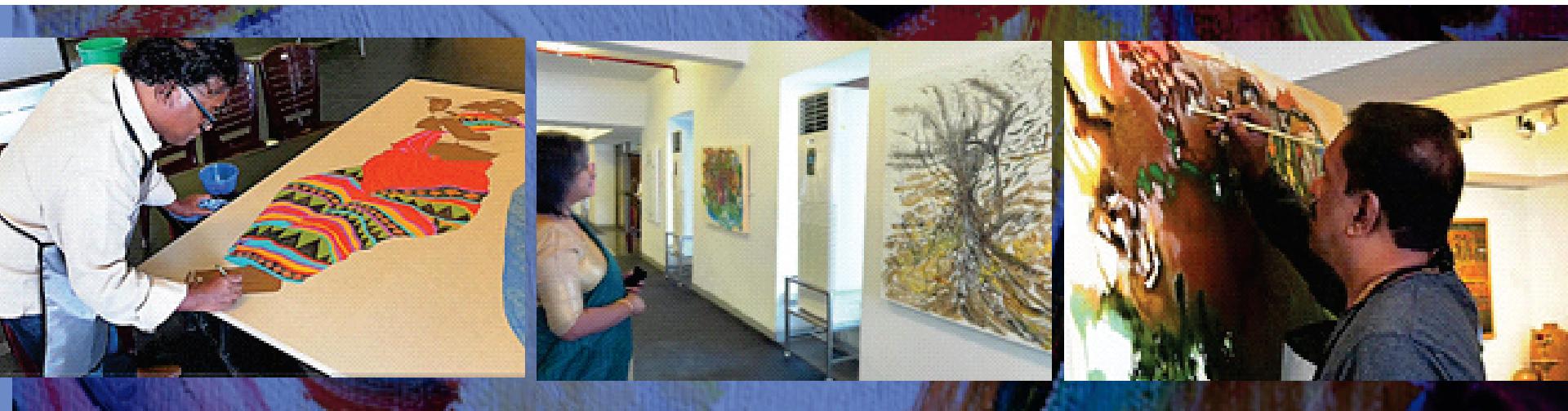
Dr S Shivaji (Ex-Officio)  
*Hyderabad*

(As of March 2020)



## A splash of colour *A sight to behold*

To **Celebrate Art** and as a mark of tribute to our late in-house artist Surya Prakash, renowned artists from across the country participated in a week-long workshop organized at the Hyderabad campus.



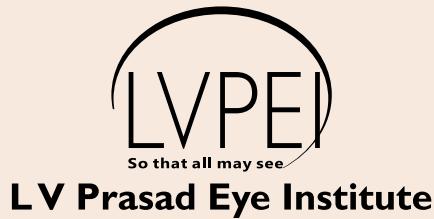
Hidden talents from LVPEI were also inspired to participate



A pleasing sight to the eyes and soul



*The beautiful gardens adorning LVPEI campuses have won several awards.*



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At L V Prasad Eye Institute, we believe in working together towards our vision – To provide equitable and efficient eye care to all sections of society. We work in partnership with individuals, corporate and other like-minded organizations. All donations to the institute are eligible for tax exemption and eligible under the CSR Act of the Companies Act, 2013. For more information please write to us at [communications@lvpei.org](mailto:communications@lvpei.org) or visit [www.lvpei.org](http://www.lvpei.org).