



**LV Prasad Eye Institute**



**2018-2019  
Activity Report**

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# LVPEI

So that all may see



Rural and  
Community  
Eye Health



Capacity  
Building



Education



Research



Technology  
Innovation



Product  
Development



Advocacy,  
Policy and  
Planning



Patient  
Care



Eye Banking



Vision  
Rehabilitation

# WHO re-designates L V Prasad Eye Institute as collaborating centre



Liberia Eye Medical Center Conducts More Cornea Transplant Surgeries

Source: October 12, 2018 by Zara Balaji



MONTEVIDEO, Montevideo - Since the Liberia Eye Medical Center was established in 2017 at the John K. Kennedy Medical Center, at least ten ophthalmologists have performed a range of eye surgeries at the center.

Former president Ellen Johnson Sirleaf dedicated the Liberia Eye Medical Center in July 2017, and the

## Eye hackathon yields innovative solutions

V Prasad Eye Institute (LVPEI) hosted the 6th edition of Engineering the Eye Hackathon (ETE) from July 4 to 8. Over 30 teams showcased the outcome of their creative minds that were built in 72 hours to shape the future of healthcare service providers. At this year's edition of the Engineering the Eye Hackathon, 15 unique problem statements were provided to the students by the clinician faculty at LVPEI. Out of these problem statements, eight were shortlisted for final presentation to the jury. The winner of the three finalists was an innovative idea for an endoscope to diagnose Retinopathy of Prematurity (ROP) in pre-term babies, mentored by Dr Subhadra Jalali. Every year, ETE brings together a unique opportunity for innovators to delve into the possibilities of building solutions for eye health-

care problems. LVPEI provides a platform for young minds to see their innovations go from prototype to product in the hands of the target audience through this annual event. Since 2013, the LVPEI Center for Innovation has hosted five editions of Engineering the Eye resulting in breakthrough innovations. ETE focused on the path to exponential innovation for equitable eye care. In this edition, the QDs of exponential



## 20 YEARS A CHARM!

**L**V Prasad Eye Institute (LVPEI)'s community eye care arm the Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care (GPRA-CARE) is celebrating its 20th anniversary this year. Guests of Honour Jagat Prakash Nadda, Union Minister of Health & Family Welfare, Govt. of India and Chief Guest E S I. Narasimhan, Governor of AP & Telangana were present at the celebrations.



## LVPEI signs MoU with Portuguese foundation

For advanced eye cancer treatment



**Joining hands:** Representatives of LVPEI and Antonio Champalimaud Foundation signing the MoU in the city on Friday. ■ ARRANGEMENT

STAFF REPORTER  
HYDERABAD

The LV Prasad Eye Institute

eye cancer treatment solutions. The collaboration will also see genetic, molecular and cellular analysis. The

## World Keratoconus Day at LVPEI

On occasion of World Keratoconus Day on November 10, to increase awareness about the disease, Tej Kohli Cornea Institute conducted a patients' interaction at LV Prasad Eye Institute. Keratoconus is a condition when cornea thins into a conical shape causing impairment of vision.

## LVPEI observes purple day



**World Prematurity Day:** The garden of the L.V. Prasad Eye Institute illuminated with purple light in Vijayawada.

SPECIAL CORRESPONDENT  
VOLUNTARY

With the advancement of

medical sciences, the survival rate of 'preterm' babies has improved and with it the incidence of Retinopathy of Prematurity (ROP).

The L.V. Prasad Eye Institute (LVPEI) observed purple day to promote awareness about ROP on its campus here on Saturday.

The hospital staff were dressed in purple and the institute was illuminated in

in Paris and other famous buildings in the rest of the world are illuminated by purple light to mark the World Prematurity Day. Vitreoretina and Uvea Specialist Dr. Sameera Nayak told *The Hindu*.

More than 50,000 children were affected by ROP globally. In India around 500 children were affected every year, but these estimates based on blind school surveys were just the tip of the tip of the iceberg.

The hospital staff were dressed in purple and the institute was illuminated in

purple light to mark the World Prematurity Day.

In Paris and other famous buildings in the rest of the world are illuminated by purple light to mark the World Prematurity Day. Vitreoretina and Uvea Specialist Dr. Sameera Nayak told *The Hindu*.

Speaking on the occasion, Dr Taraprasad Das, Vice Chair, L V Prasad Eye Institute said, "It gives us immense satisfaction that Mithu Tulsi Chanrai Campus and Miriam Hyman Children's Eye Care Centre have completed 12 and 10 years of establishment respectively.



## Miriam Hyman Children's Eye Care Centre at LVPEI completes 10 years

Bhubaneswar, July 4: United Kingdom, also focuses on Retinopathy of Prematurity (ROP) and Retinoblastoma (eye cancer) treatment.

In his inaugural speech in 2008, during the launch of MHCECC, Dr Gullapalli N Rao, Founder and Chair, L V Prasad Eye Institute said that the inauguration is just the beginning of a long journey. Their vision for the Centre is that in the next five years, every child in Odisha who needs any form of eye care should have access to the highest quality of eye

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# Beyond Expectations!



Gullapalli N Rao  
*Chair, Board of Trustees*

31<sup>st</sup> March 2019 marked the completion of 99 corneal transplant procedures in our rural secondary centres. A day later, we completed a CENTURY - a unique milestone, unthinkable in a country where many residency training programmes don't offer this service at all. Significantly, a majority of these surgeries were in centres located in the most disadvantaged geographic areas. It was never our intention to get into the care of conditions that are traditionally in the realm of tertiary care because of greater demands on the availability and cost of the required infrastructure, talent and support systems. But we achieved it by combining available talent with cutting edge technology, including tele-ophthalmology tools, as part of an integrated eye care system managed by a committed medical team.

Our long and arduous thirty-year old eye banking journey peaked with harvesting around 10,000 corneas and helping in over 6000 transplants - another milestone unexpected in India. Our entire Cornea and Eye banking teams deserve special applause. To many supporters who helped in diverse ways, we owe a debt of gratitude.

Three hundred plus publications in a year is a cause for celebration and a great return on investment in nurturing a culture of research since the Institute's inception. Significant progress was made in research on multiple aspects of infections, stem cell biology, and vision psychophysics.

The numbers of our secondary service centres and primary care vision centres increased, and the quality of care improved with the application of tools developed by our technology innovation group and others. The Tertiary Centres and the Centre of Excellence continued to innovate, adding some new services, and improving existing ones.

Education programmes continue to improve and grow, with more intensive exit competency exercises. A major milestone is the launch of Ophthalmology Residency training in Liberia, a step towards building internal capacity for Ophthalmologists in Liberia and other countries in that region that have a dire need. The support from Lions Clubs International Foundation's SightFirst programme for this activity is greatly appreciated.

This year, major support from Standard Chartered Bank gave a big boost to our programmes, and helped us to meet the increasing demand for training of allied ophthalmic health personnel.

The Odisha government's Universal Eye Health programme is a result of the advocacy efforts of Taraprasad Das, and the massive screening programmes of the Telangana government was guided by Srinivas Marmamula and others.

Through all the intense activity, several team members received recognitions from various organizations around the world, which helped to enhance our image.

Lastly, we are touched by the ever increasing generosity of numerous organizations and individuals who support our continued growth. To all of them, we remain indebted.

Overall, it was a year where many goals were achieved much beyond expectations.



- 50,000 sq ft flagship building completed
- Patient care services commence (paying and non-paying)
- First cornea fellowship
- Education activities commence
- Establishment of the Ramayamma International Eye Bank
- Community outreach activities commence
- Comprehensive ophthalmology fellowship



- Meera and L B Deshpande Centre for Sight Enhancement inaugurated
- Andhra Pradesh Eye Disease Study begins
- LVPEI's first Secondary centre started
- Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care inaugurated
- Supporters and Sightsavers exclusive services initiated
- Retinopathy of Prematurity screening initiated
- Bausch & Lomb School of Optometry established



1987 - 1990

1991 - 1995

1996 - 2000

2001 - 2005

**4 tertiary and advanced tertiary centres,  
19 secondary centres,  
2 urban city centres and  
180 vision centres - across  
Telangana, Andhra Pradesh,  
Odisha and Karnataka.**

- Brien Holden Eye Research Centre inaugurated
- Dr PRK Prasad Centre for Rehabilitation of Blind and Visually Impaired inaugurated
- First vision centre
- Production of MK Medium
- Training for ophthalmic nurses, technicians and eye care managers initiated
- Research in public health and epidemiology starts
- First two partner rural secondary centres

- Designated as World Health Organisation Centre for Prevention of Blindness
- Designation as resource centre for VISION 2020: The Right to Sight - Andhra Pradesh
- Eye Bank crosses 1000 mark in cornea collection
- Academy for Eye Care Education formally inaugurated
- Recognised by Indian Govt as centre for stem cell research
- Children's Eye Health initiative launched



# Timeline 1987 - March 2019

- Bhubaneswar Campus (Mithu Tulsi Chanrai) inaugurated
- Visakhapatnam Campus (GMR Varalakshmi) inaugurated
- Village Vision Complex established
- Eye Banks set-up at Bhubaneswar and Visakhapatnam
- LVPEI Eye Bank recognized as 'Global centre of excellence' by SightLife
- eyeSmart EMR service initiated

- Institutes of Excellence for Geriatrics and Dacryology inaugurated
- World record: 2000+ corneal transplants in a year at Hyderabad campus
- Tej Kohli Cornea Eye Bank inaugurated at Vijayawada
- Tele-ophthalmic slit lamp installed in secondary and vision centres
- For the first time, Institute takes up the management of a centre outside India - Liberia Eye Centre
- Institute for Vision Rehabilitation inaugurated
- BostonSight Lens Manufacturing Lab set-up at LVPEI
- Brien Holden Institute of Optometry and Vision Sciences inaugurated
- Official Government partner for: 'Universal Eye Health' program in Odisha and 'Kanti Velugu' project in Telangana
- LVPEI re-designated as WHO Collaborating Centre

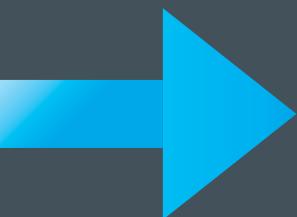
2006 - 2010



2011 - 2015



2016 - 2019

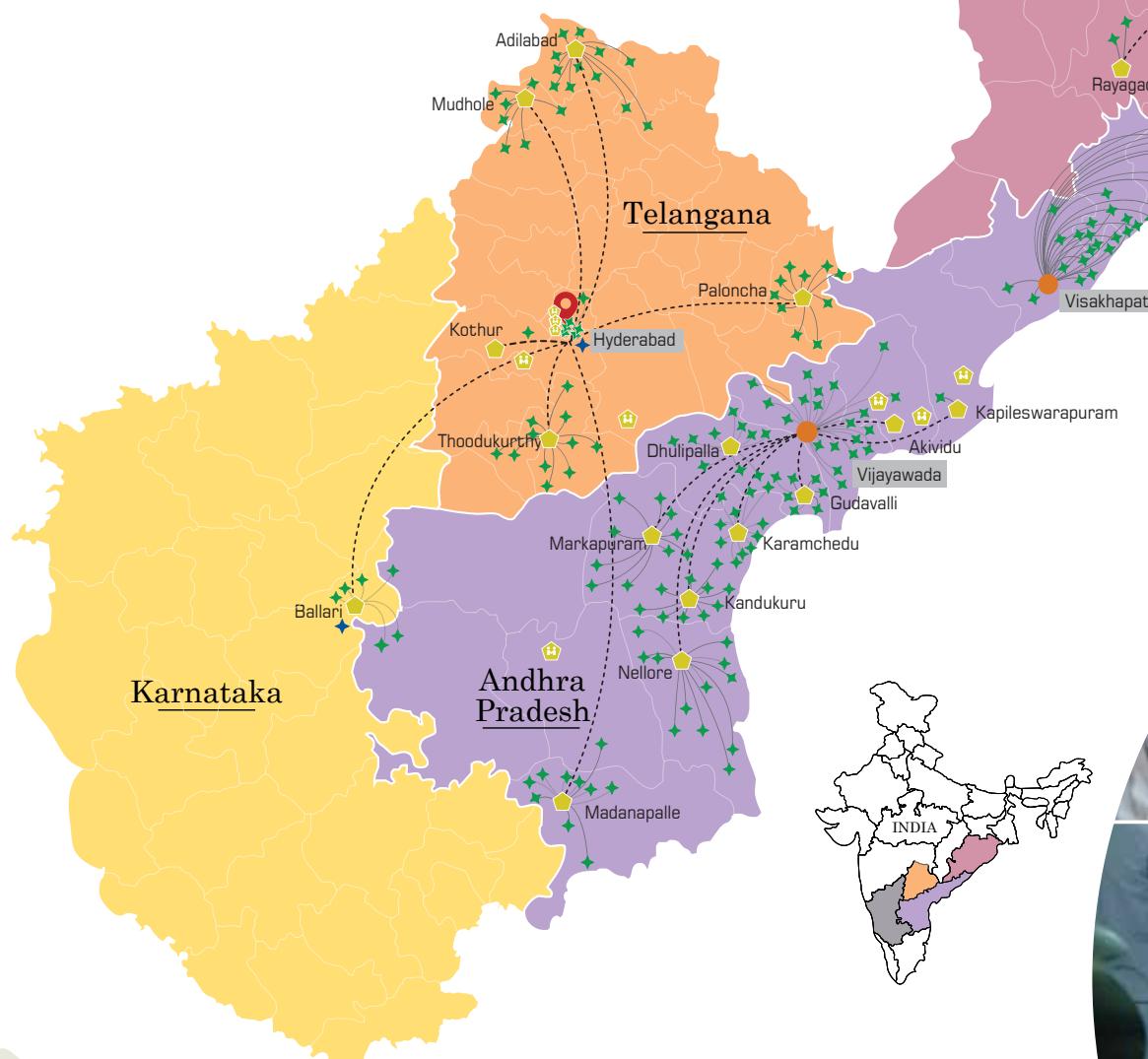


- Vijayawada Campus (Kode Venkatadri Chowdary) inaugurated
- First eye institute to be accredited by the NABH
- LVPEI Centre for Innovation inaugurated
- First secondary centre in Odisha
- Liberia eye health initiative launched
- Performed 20,000 corneal transplants
- New patient care building at Hyderabad
- Institutes of Excellence for cornea and cancer
- Patents filed for two products
- Complex surgeries performed at Secondary Centres

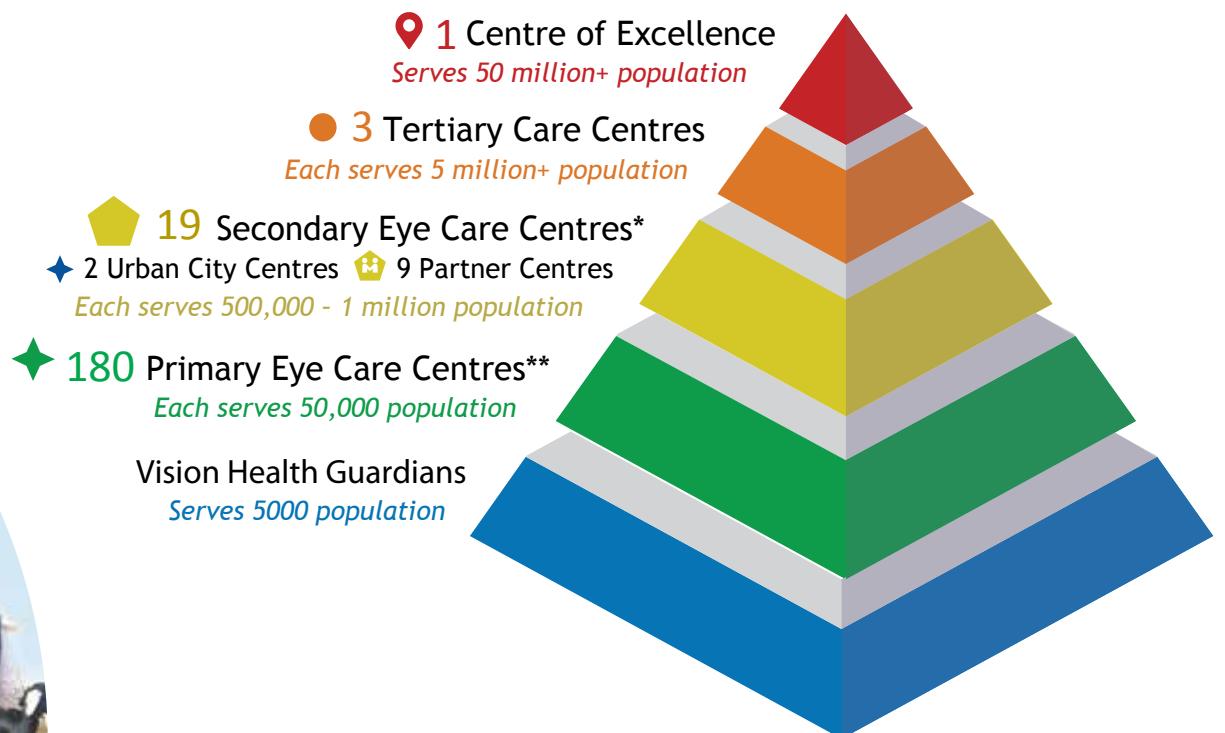


# LVPEI Eye Care Network

205  
centres



# 1 secondary centre and 8 vision centres were inaugurated between April 2018 to March 2019



\* Secondary Centres; \*\* Vision Centres

# Impact

1987 to March 2019



# The Year at a Glance

(April 2018 to March 2019)

1,555,125  
Outpatients

165,490  
Surgeries



533,186  
Reached through  
community eye  
health initiatives



3  
Patents  
filed



18,686  
Visually impaired  
rehabilitated



332  
Publications



241  
Presentations



101  
Awards



1387  
Advocacy and awareness  
generation programs



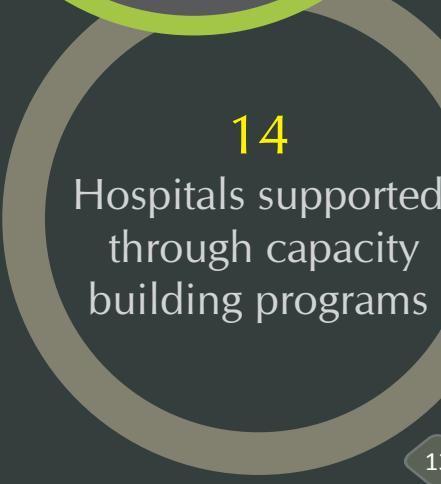
10,265  
Donor corneas  
harvested



6045  
Donor corneas  
distributed



549  
Trained  
1438  
Trained through  
Continuing Medical  
Education programs



14  
Hospitals supported  
through capacity  
building programs

# LVPEI bags 6 ranks in the Times of India Health Survey

Ranking	LVPEI Hyderabad	LVPEI Bhubaneswar
National	No. 1	No. 3
Regional	No. 1 (South)	No. 1 (East)
City	No. 1	No. 1

OPHTHALMOLOGY NATIONAL RANKING	
Name	Rank
LV Prasad Eye Institute, Hyderabad	1
Narayana Nethralaya, Bangalore	2
LV Prasad Eye Institute, Bhubaneshwar	3
REGIONAL RANKINGS - SOUTH	
Name	Rank
LV Prasad Eye Institute, Hyderabad	1
Narayana Nethralaya, Bangalore	2
Sankara Nethralaya, Chennai	3
CITY HOSPITAL RANKING - HYDERABAD	
Name	Rank
LV Prasad Eye Institute	1
Apollo Hospitals	2
Challa Eye Care Centre	3

## Ophthalmology

Rank	Hospitals
1	All India Institute of Medical Sciences
2	L V Prasad Eye Institute
3	Sankara Nethralaya
4	Aravind Eye Hospital
5	Narayana Nethralaya
6	Aravind Eye Hospital
7	Sankara Eye Hospital
8	Postgraduate Institute of Medical Education and Research
9	Centre for Sight
10	Christian Medical College
11	Dr. Agarwal's Eye Hospital
12	Aditya Jyoti Eye Hospital
13	Disha Eye Hospitals
14	L V Prasad Eye Institute



The World Health Organization (WHO) re-designated LVPEI as a WHO Collaborating Centre for Prevention of Blindness

- Indywood Hospitality Excellence Award
- The Week ranks LVPEI's Hyderabad campus at No.2 and Bhubaneswar campus at No.14
- Fittle - The first 3D printed Braille puzzle, developed in partnership with Serviceplan Health & Life and Ravensburger received bronze at the Cannes Lions International Festival and London International Award
- Ramayamma International Eye Bank has been re-certified for quality by SightLife
- Appointed as the technical and training partner for the 'Telangana Kanti Velugu project' launched by the Government of Telangana
- LVPEI Visakhapatnam received the Andhra Pradesh Greening and Beautification Corporation's 'Green Awards'

### Komal Agarwal

- Third prize for designing a portable simple ROP camera, Sixth Engineering the Eye Hackathon, LVPEI

### Satish Patnaik Baggam

- Best oral presentation, Indian Eye Research Group annual meeting

### Sayan Basu

- Virender Sangwan Chair of Ocular Regeneration, LVPEI
- Council Member, Asia-Pacific KPro Study Group

### Soumyava Basu

- Wellcome Trust/DBT India Alliance Intermediate Fellowship in Clinical and Public Health Research

### Naheed Arfin Borah

- Travel Award, Indian Eye Research Group annual meeting

### Subhabrata Chakrabarti

- Chair, Communication and Technology Committee, World Glaucoma Association
- Global Mentor, Association for Research in Vision and Ophthalmology

### Nikhil S Choudhari

- Association for Research in Vision and Ophthalmology publications grant

### Taraprasad Das

- Col (Dr) Dinabandhu Panda & Prof Suprava Panda Lecture
- Elected as Vice-President, Asia-Pacific Academy of Ophthalmology

### Tarjani Dave

- Best paper award in orbit and oculoplasty, All India Ophthalmological Society

### Vivek Dave

- Achievement award and best paper presentation award, Asia Pacific Academy of Ophthalmology

- Yasuo Tano travel grant Asia Pacific Academy of Ophthalmology

### Vijay Reena Durai

- Best paper award, Dr E Vaithilingam memorial scientific session organized by the Elite School of Optometry, Sankara Nethralaya

### Sankeert Gangakhedkar

- Korean Retina Society travel grant, Asia-Pacific Vitreo-Retina Society

### Naresh Gattu

- First, second, third prizes, and an honourable mention, The Ophthalmic Photographers' Society

### Sanjukta Guha

- Awarded Senior Research Fellowship, Council of Scientific & Industrial Research, Government of India

### Subhadra Jalali

- Queen Elizabeth Diamond Jubilee Trust honoured her ROP (Retinopathy of Prematurity) work by making a documentary on her 'A Life of Sight'
- Dr Hem K Tewari Memorial Oration, Dr R P Centre for Ophthalmic sciences

### Joveeta Joseph

- Associate Fellow, Telangana Academy of Sciences

### Sandeep K

- Holman Honorary award, The Light House for the Blind and Visually Impaired
- Certificate of competence, Association for the Blind and Visually Impaired, Rochester

### Swathi Kaliki

- The Indian Council of Medical Research - Shakuntala Amir Chand Prize for excellence in clinical research

### Inderjeet Kaur

- Treasurer, Indian Society of Human Genetics

### Ramesh Kekunnaya

- Associate Editor, Pediatric Ophthalmology & Strabismus, British Medical Journal
- Program Committee, Member, Pediatric Ophthalmology & Strabismus Section, American Academy of Ophthalmology

### Abhinav Reddy Kethiri

- Awarded Senior Research Fellowship, Indian Council of Medical Research
- Association for Research in Vision and Ophthalmology travel grant

### Rohit Khanna

- Member, Board of Trustees, International Agency for the Prevention of Blindness
- Appointed to Editorial Board of Journal of Population Health Management

### Ranjith Konduri

- International travel grant, Science and Engineering Research Board
- Awarded Senior Research Fellowship, Indian Council of Medical Research

### Bejjanki Kavya Madhuri

- Best paper award in Orbit and Oculoplasty, All India Ophthalmological Society

### Anil K Mandal

- Delivered the Noel Rice Lecture, UK Pediatric Glaucoma Society
- Rustom Ranji Oration, Telangana Ophthalmological Society

### Somasheila Murthy

- Outstanding woman ophthalmologist, Women Ophthalmologists Society

### Ashik Mohamed

- University of New South Wales Alumni Award in Young Alumni category

- Portrait (One among the 14 alumni

worldwide) featured in UNSW Science edition of the Facing Equality project

### Sashwanthi Mohan

- Third prize, ERUDIO Allergan Quiz Contest

### Raja Narayanan

- Young Ophthalmologist award, South Asian Association for Regional Cooperation - Academy of Ophthalmology
- Best Publication in Indian Journal of Ophthalmology (Gold)

### T V Aishwarya Pillai

- Young Achiever Award, National Federation of the Blind

### Gullapalli N Rao

- Lifetime achievement award, All India Ophthalmological Society

### Ashutosh Richharia

- Felicitated by Vignan Technical University

### Sirisha Senthil

- Achievement award, American Academy of Ophthalmology
- International Heroes award, Women Ophthalmologists Society

### Pratima Singh Thakur

- Prof I M Sahu award for best cornea paper presentation, Odisha State Ophthalmological Society

### G Srinivas

- Rising Star award by Pixoto photo website

### Pavan Verkiculara

- Inspire faculty Award, Department of Science and Technology, Government of India
- Early career research award, Science and Engineering Research Board

# Kallam Anji Reddy Campus



Hyderabad campus represents the apex of our pyramidal model of eye care delivery and continues to subserve this role optimally. We provided services to more than 460,000 outpatients and performed 72,100 plus surgeries most of which were complex and referred from all over the country. Many faculty members were honoured with prestigious awards and contributed close to 300 articles in various peer reviewed journals.



32 Years of service  
965 Team strength

“

**The best this year:** The Week magazine recognising the campus as the second best health care organisation in Ophthalmology category; grant to develop research and clinical care infrastructure for dry eye diseases and invitation to Dr Anil K Mandal to deliver the prestigious Noel Rice Lecture were among the best of the year.

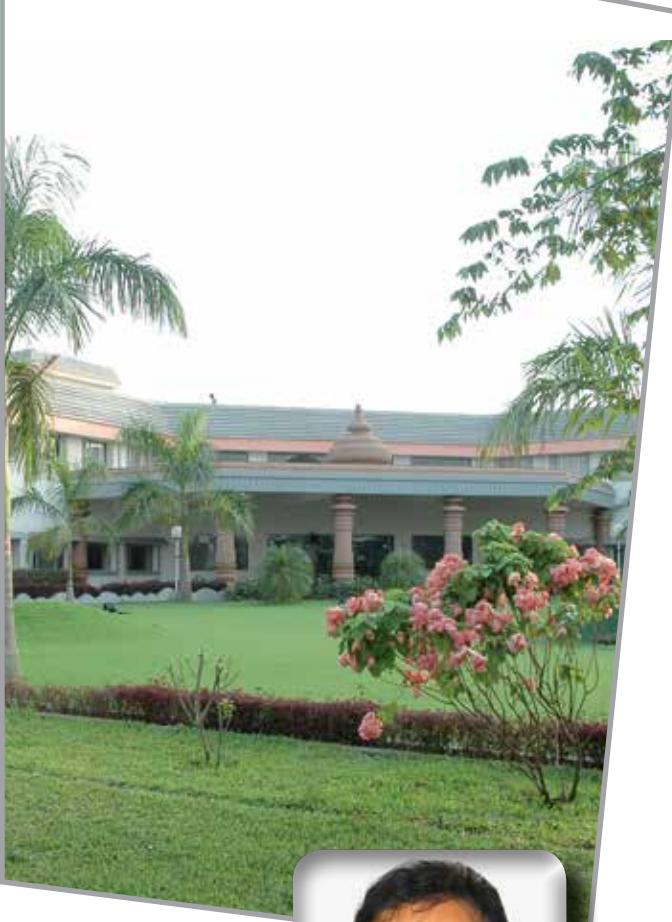
**Way forward:** A major focus will be to incorporate technology for a superior patient experience including online appointment; payment gateway and even check-in on reporting in the institute. The campus will be the command centre for our organization's tele-ophthalmology initiatives.

”

**Prashant Garg**

*Director, Kallam Anji Reddy Campus, Hyderabad  
Dr Kallam Anji Reddy Distinguished Chair of Ophthalmology  
Dr Paul Dubord Distinguished Chair of Cornea*

# Mithu Tulsi Chanrai Campus



Suryasnata Rath

*Director, Mithu Tulsi Chanrai Campus, Bhubaneswar  
Taraprasad Das Chair of Ophthalmology*

To cater to the eye care needs of people in Eastern India, LVPEI started its services in Odisha with the inauguration of the Bhubaneswar campus 12 years ago. Till date, the centre has seen 1.1 million patients and performed 124 thousand surgeries; over 30% at no cost to the patient. It is also actively involved in research activities. In addition to significant grants and awards, this year alone witnessed 50 peer-reviewed publications by the faculty.



12 Years of service  
240 Team strength

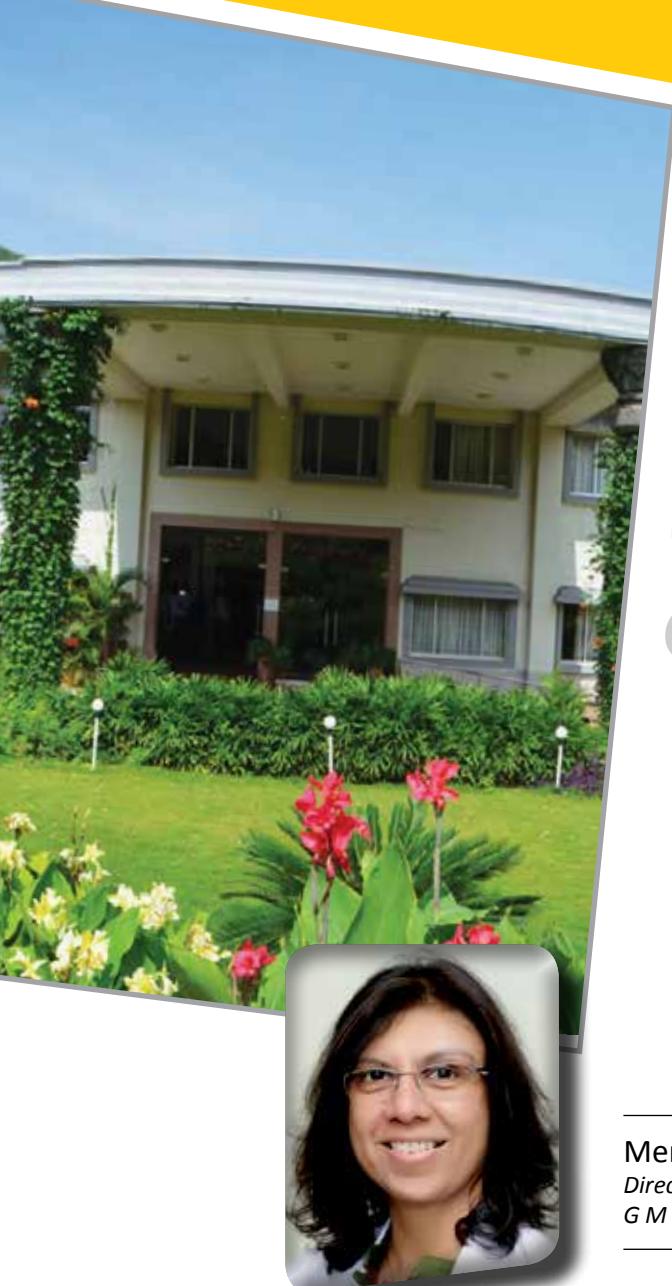
“

**The best this year:** Tenth anniversary of the Miriam Hyman Children's Eye Care Centre that coincided with 370 children being examined and 200 cataract surgeries being performed under the 'Rashtriya Bal Swasthya Karyakram' program.

”

**Way forward:** Fast track clinic for patients needing refraction and extended clinic hours. Capacity expansion with modern state-of-the-art operation theatre complex and a city centre for wider reach.

# GMR Varalakshmi Campus



We saw over 130,000 patients in the out-patient department and performed over 15,000 surgeries amounting to 14% and 18% growth respectively, compared to the previous year. More than 30% of these patients were seen at no cost. We were extremely happy with the addition of the Ocular Prostheses Clinic, which has given a fillip to the oculoplasty service.

12 Years of service  
180 Team strength

“

**The best this year:** GMRV campus has taken 'Going Green' to the next level with the installation of solar panels which now provide 150 kW electricity. We were awarded the first prize as a "Green Hospital in AP" by Chief Minister Sri N Chandrababu Naidu.

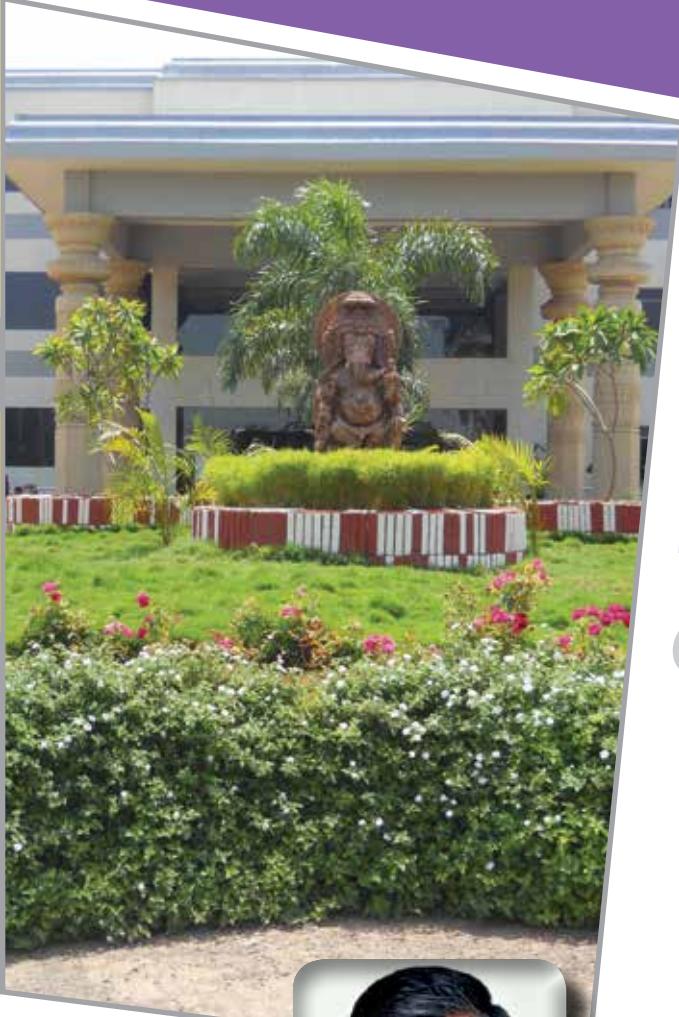
**Way forward:** We are looking forward to increasing our patient care infrastructure and human resources in order to meet the increasing demand from North Coastal Andhra Pradesh.

”

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Merle Fernandes  
*Director,*  
*G M R Varalakshmi Campus, Visakhapatnam*

# Kode Venkatadri Chowdary Campus



At the Kode Venkatadri Chowdary campus, we examined 95,235 patients, including 15,187 children and performed 10,914 surgeries this year. Infrastructure expansion included a new clinical diagnostic laboratory, electroretinogram (ERG) facility and a wet lab for facilitating training of young ophthalmologists. The campus has also applied for NABH accreditation.



“

**The best this year:** The campus now offers advanced Oculoplasty services including complex reconstructions, endoscopic surgeries and ocular prostheses.

**Way forward:** Develop programs to ensure that every child born premature in the neighbouring areas of Vijayawada and Guntur is screened and provided care for Retinopathy of Prematurity. Additionally, focus on community-based programs for early detection and management of Diabetic Retinopathy.

”

**Prashant Garg**

*Director,*

*Kode Venkatadri Chowdary Campus, Vijayawada*

# Patient Care Services

'Patient First' is one of the core values of the institute. Each action of the institute is directed to enhance the satisfaction with careful attention to personalized care through dedicated and unhindered time and professionalism. We drive the system through constant upgradation of infrastructure, continuous professional development of people and quality check on the operational system.



Taraprasad Das  
*Vice Chair,  
Patient Care Policy*



**The best this year:** Some of the tertiary eye care services were provided at secondary centres. Nearly 100 corneal transplants were performed in the rural secondary eye care network and this is a unique achievement.

**Way forward:** The patient care 'Big data' for predictive and advanced analysis is being captured through our EyeSmart Electronic Medical Record system. For better patient care and treatment outcomes, it is important to scale this up further.



Total 205 Centres

11 Centres  
Odisha

54 Centres  
Telangana

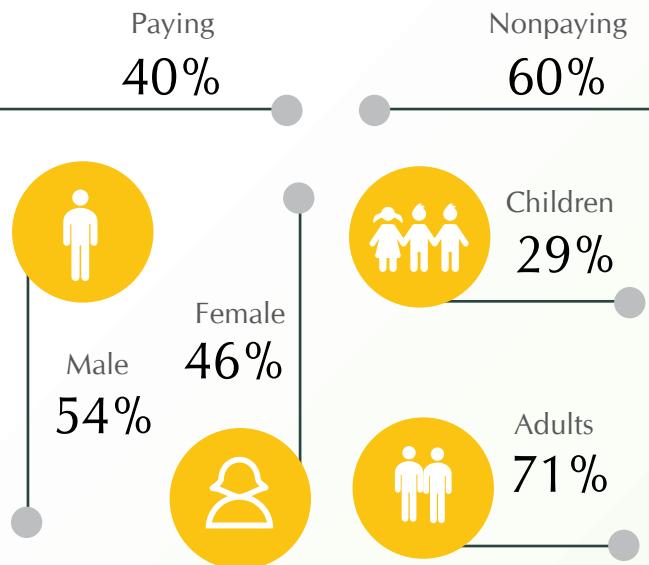
5 Centres  
Karnataka

135 Centres  
Andhra Pradesh

180 Vision Centres  
19 Secondary Centres  
2 City Centres  
3 Tertiary Centres  
1 Centre of Excellence



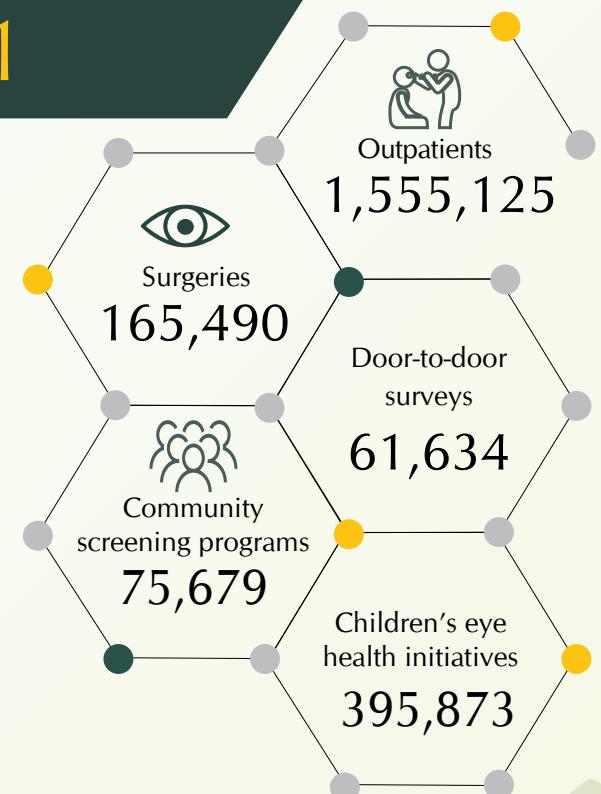
Population reached **2,253,801**



## Population Covered

Tertiary and advanced tertiary centres 42 %  
Village Vision Complex 58 %

Village Vision Complex includes Secondary Centres, Vision Centres and Community outreach initiatives.



**839,510**

Outpatients



**128,395**

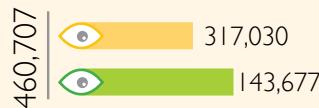
Surgeries



## Tertiary and advanced tertiary centres

### Kallam Anji Reddy Campus, Hyderabad

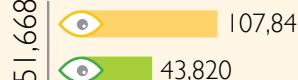
Outpatients



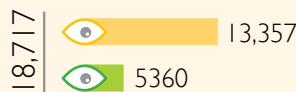
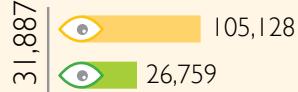
Surgeries



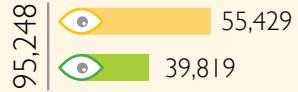
### Mithu Tulsi Chanrai Campus, Bhubaneswar



### GMR Varalakshmi Campus, Visakhapatnam



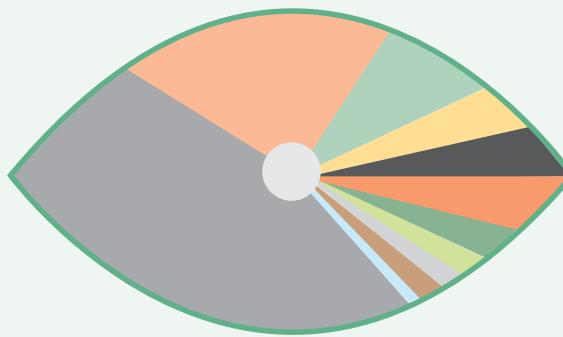
### Kode Venkatadri Chowdary Campus, Vijayawada



Paying

Non-Paying

## Analysis of Surgical Procedures



Total number of Cornea transplants

2951

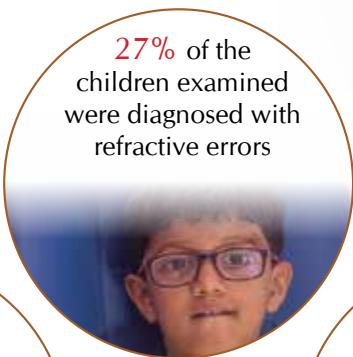
Total number of stem cell based procedures

143





0 - 16 Years



- Jasti V Ramanamma Children's Eye Care Centre, Hyderabad
- Miriam Hyman Children's Eye Care Centre, Bhubaneswar
- Nimmagadda Prasad Children's Eye Care Centre, Visakhapatnam
- David Brown Children's Eye Care Centre, Vijayawada

Looking at the extremely adorable **four-year-old Shristi** bubbling with energy, it is hard to believe that she spent the first six months of her life in hospitals fighting for her life and vision. Born prematurely in the 6<sup>th</sup> month with a **birth weight of 650 grams**, she was kept in an incubator in a local hospital in Visakhapatnam. Extreme prematurity resulted in a serious retinal problem called **Retinopathy of Prematurity (ROP)** common in premature babies. Shristi was rushed to LVPEI Visakhapatnam in an ambulance. Her condition was very critical and was further complicated by cataracts. As she needed highly advanced clinical care due to the various complications including her low birth weight, she was treated between the two **centres in Visakhapatnam and Hyderabad**. Since then she has been operated in both her eyes for **cataract, retina and squint**, ensuring minimum travel for the family.



We were scared that even if she survives, without vision her future will be bleak. Thanks to the excellent coordination between the two centres and the advanced care available at LVPEI to treat such complex newborn cases, Shristi today enjoys good functional vision. She goes to play-school now and knowing the fighter that she is, we are confident that she has a great future ahead.

*Shristi's father*

November 2018 marked the completion of **20 years** of **ROP** services at LVPEI. **20,000** babies have been screened and **2818** babies treated for **ROP** in all these years



# Institute for Vision Rehabilitation



Through our Centre-based and Community-based models of service delivery, we were able to positively impact the lives of 8596 people with disabilities and in turn, their family members. We not only focused on catering to the complete rehabilitation requirements of our clients but also conducted training programs to further enhance the skills of professionals working in this field.



“

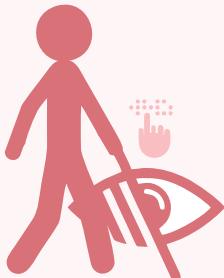
**The best this year:** The commencement of a dedicated 'Special Needs Vision Clinic' to attend to vision and associated needs of children with developmental delays and disabilities is an important milestone in our journey.

**Way forward:** We are committed to ensuring the 'Right to Dignity' for persons with disabilities. Through our new 'Inclusive skills training' initiative we aim to economically empower them and their families with a better quality of life.

”

---

Beula Christy  
Head of Services,  
Institute for Vision Rehabilitation



**15,846**

clients availed low vision and  
vision rehabilitation services

**2840**

benefited from community  
outreach services

**38%**  
nonpaying

 **48%**  
children

 **41%**  
female



**167** children with special needs assisted through  
441 sessions of vision assessment and therapy

**3464** children with developmental delays received  
therapeutic intervention through 24379 sessions

**704** queries on various disability issues resolved  
through 'HelpLine for the visually impaired'

**162** books in digital audio format were added to the library  
and accessed by 5303 people from across the country

**110** young adults trained on computer  
skills through assistive software

**1185** persons with low vision assisted to improve  
functional activities through low vision devices

**831** volunteers provided 4688 hours of service in the form of  
scribe writers, readers, audio recording of text books, etc.

**64** people with disabilities empowered to be economically  
independent through self-employment and job placement

**21** national and international professionals  
trained on low vision rehabilitation

**2000** participants benefitted from 47 advocacy programs  
and events organized to promote the rights of people with disability

**14,153** visitors sensitized on disability rights and needs  
through the 'Mobility and Sensory Integration Park'



**Helping Hands** App helps connect visually impaired people with volunteers who are willing to assist them in travelling, shopping, paperwork, recreational activities and other similar tasks. This application has been developed in collaboration with Techsophy and can be downloaded from the Google play store.



Some children need extra care and attention because of the various developmental delays and disabilities they have, including visual impairment. They require specialized assessment and intervention besides standard clinical examination. Special Needs Vision Clinic is one such unique initiative aimed at helping these children, their parents and caregivers, lead a better quality of life. It is part of the early intervention program at LVPEI and is funded by RenewSys India Pvt. Ltd in collaboration with Mission for Vision, Mumbai.



**Humanistic Co-Design workshop** provided an ecosystem for the designers, makers and engineers to work along with people with disabilities and develop innovative technologies and devices that can be of assistance to them. Organized with support from the LVPEI Center for Innovation and MIT India, it aimed at helping the designers understand the challenges and experiences of people with disability and accordingly brainstorm for constructive solutions.



## Adding the lost colours

“

Well, I can barely see, but through the medium of art, I see things beyond what others can see. My love for art is the fuel for my soul and has been my constant companion always.

Born with high myopia and low bone density, my health was never in the best of form. The doctors associated that to my parents' consanguineous marriage. But I never let it deter me and with the support of my family, participated in all activities possible.

Life took an ugly turn when in my 8<sup>th</sup> grade I lost vision in the right eye due to a pencil injury and a couple of years later, lost my left eye vision as well due to leucoma. My schools mates, friends and teachers would often ridicule me, and make me feel like an outcast.

Though traumatized initially, I did not succumb to depression for long. After reading an article in a newspaper, my family brought me to LVPEI's Institute for Vision Rehabilitation. Professional and emotional counselling, training in mobility, use of special assistive software and low vision devices, helped me regain my lost confidence. The fun camps that I would attend at the Institute filled me with positivity. I rely on assistive softwares for reading and writing. However, with the very limited vision that I still have, I continue to pursue my artistic passion. I was so beautifully made to understand at LVPEI that the only disability in one's life is a bad attitude.

S Ashwini, from Tirupati, Andhra Pradesh

”

Ashwini works with IBM India as Associate Systems Engineer. She is also associated with an art academy and has won many prestigious awards for her artistic drawings. She is also starting to participate in forums for advocating for women's rights. Inspired by the LVPEI team, she has started a not-for-profit organization called 'Krant - Ray of Hope', where she is trying to provide support to people who face similar challenges.



Made by Ashwini



# Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care



Rohit C Khanna

*Director,*

*Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care*

The expansion we witnessed this year in LVPEI's rural eye care network included 1 Secondary and 8 Vision Centres. The program of developing robust 'primary eye health' mechanisms in the states of Andhra Pradesh, Telangana and Odisha is a major strategic thrust, and we are happy to report that we are progressing rapidly on this.



25 Years of service  
795 Team strength

“

**The best this year:** The 20<sup>th</sup> anniversary celebrations of the formal inauguration of Gullapalli Pratibha Rao International Centre for Advancement of Rural Eye care in 2018 was a major milestone.

**Way forward:** Transforming the way primary eye care will be delivered through technology enabled vision centres, thus accelerating our journey for achieving our goal of 'Universal Eye Care'.

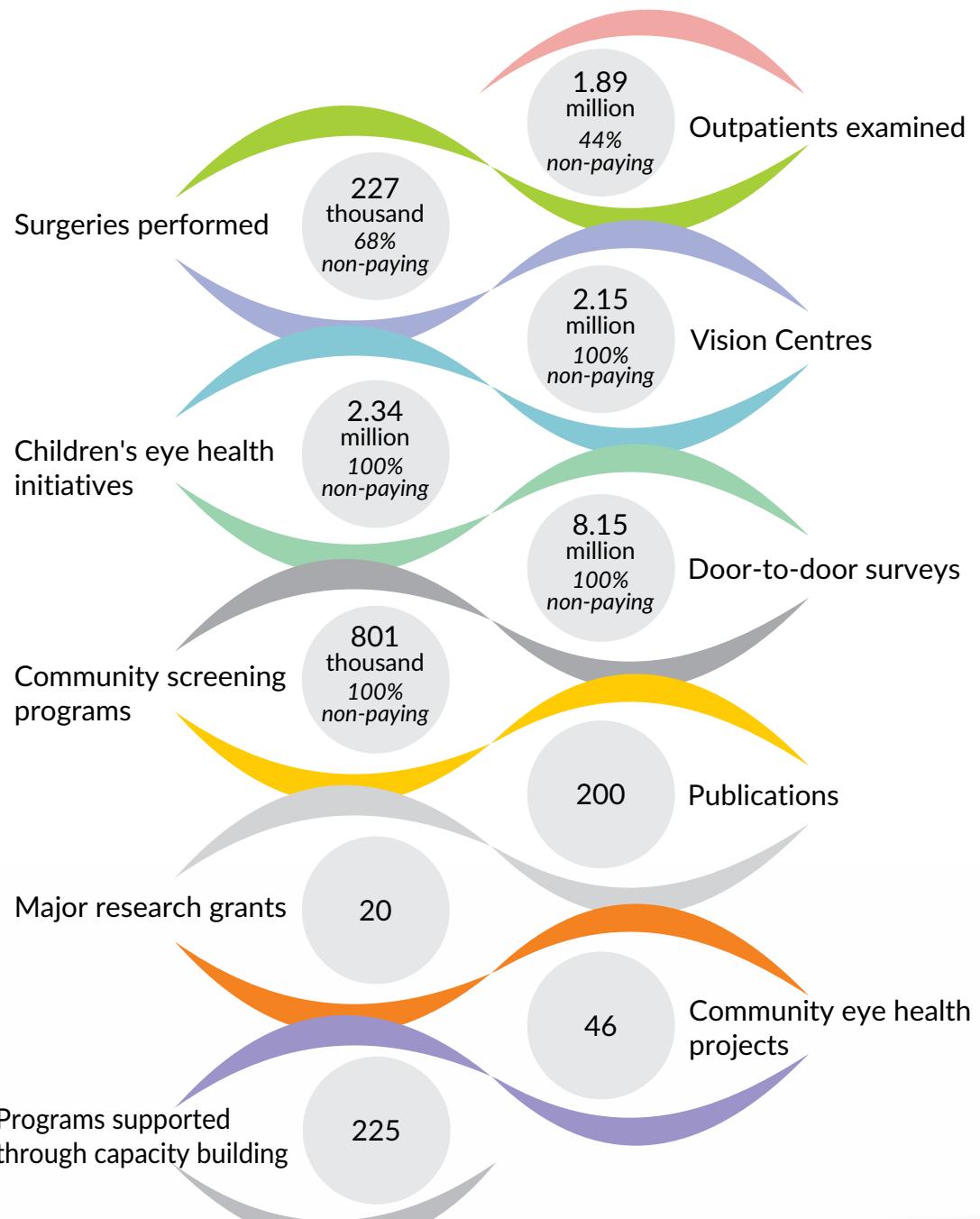
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# Rural and Community Eye Health



anniversary of the  
**Gullapalli Pratibha Rao International Centre for  
Advancement of Rural Eye care**

The landmark occasion was celebrated on 15 September 2018 amidst several dignitaries including the Union Health Minister, Sri Jagat Prakash Nadda; Governor of Telangana and Andhra Pradesh, Sri ESL Narasimhan; the World Health Organization Regional Director for South East Asia, Dr Poonam Khetrapal Singh; the President of International Agency for the Prevention of Blindness (IAPB), Mr Bob McMullan; the Chief Executive of the IAPB, Mr Peter Holland; Immediate Past President of International Council of Ophthalmology, Prof Hugh Taylor; and Dr Maria Alarcos Cieza Moreno and Dr Ivo Kocur from the World Health Organization, Geneva.



*20+ years impact*

# Annual Highlights

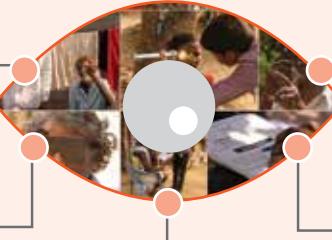
## 2018-2019

### Continue to make advanced complex surgical care available at secondary centres

- Since March 2016, close to 100 corneal transplants have been performed
- Retina, glaucoma and surgeries under general anaesthesia including pediatric cataract and squint surgeries are now being performed in some of the centres
- One new Secondary Centre was inaugurated at Akividu, West Godavari, Andhra Pradesh and 8 new Vision Centres were inaugurated in the states of Andhra Pradesh, Telangana, Odisha and Karnataka.
- 'Innovative Approaches in the Delivery of Primary and Secondary Eye care', edited by Dr Rohit C Khanna, Dr Gullapalli N Rao and Dr Srinivas Marmamula was published by Springer with Dr Arun D Singh from the USA as the series editor. Additionally, 16 papers were also published in peer-reviewed journals.
- Currently, there are 11 on-going projects in community eye health



Impact



11%  
children

53%  
female

#### Secondary Centres

**366,601** Outpatients  
**36,273** Surgeries  
40% outpatient and 60% surgical services provided at no cost to the patients

#### Vision Centres

**349,014** Outpatients  
100% outpatient services provided at no cost to the patients

#### Population reached through

**395,873** Children's eye health initiatives  
**61,634** Door-to-door surveys  
**75,679** Community screening programs  
100% services provided at no cost to the people



## Kuchakulla Ramachandra Reddy Eye Centre Thoodukurthy

Vibrant, brimming with colourful people and nostalgia, Kuchakulla Ramachandra Reddy Eye Centre, LVPEI's second secondary centre, celebrated its 20<sup>th</sup> anniversary on 24 October 2018. Nestled against a backdrop of green and hilly mountains, the centre was established in 1998 in the district of Mahabubnagar at that time, considered as one of the most backward districts with a high prevalence of blindness. The dedicated team members, patients who were treated, members of three generations of the donor family, local leaders, community elders, eminent dignitaries, were all gathered there – each of them happy to be associated with the Centre and even happier to celebrate the milestone together. These were some of the experiences that were shared:

"I admire the dedication of the team. Though scared initially, after my surgery I didn't even realize that I had undergone an operation, everything was so smooth. And the best part was that when I tried to give a tip to one of the employees here, he refused it saying it was his duty."

*Sri Shiva Raj, 93 year old patient*

"When we donated this land to LVPEI, there was nothing here. It was completely barren without any power and water supply, or proper road connectivity. It is really overwhelming to see the way this centre has developed, and its impact on the community."

*Sri K Damodar Reddy, Member of Legislative Council, (Sri K Damodar Reddy and his family have supported the centre and it is named after his father)*

"It feels as if I have come for the inauguration of a brand new centre. It does not look 20 years old. The school screening programs that are being implemented by the centre are worth applauding and are creating a far greater impact."

*Sri T Harish Rao, Member of Legislative Assembly and former minister.*

**In the past 20 years, the centre has served 266,849 outpatients and performed 33,153 surgeries. Currently, 11 Vision Centres are connected to it and 303,088 people have been screened through them.**



# Eye Bank Network



Prashant Garg  
Head,  
*Eye Banking Services*

The LVPEI Eye Bank network collected 10,265 corneas last year, of which 6045 were distributed for transplantation. In the coming years, the focus will be to share the wealth of our rich experience with other states and countries, and help them in developing eye banking facilities.



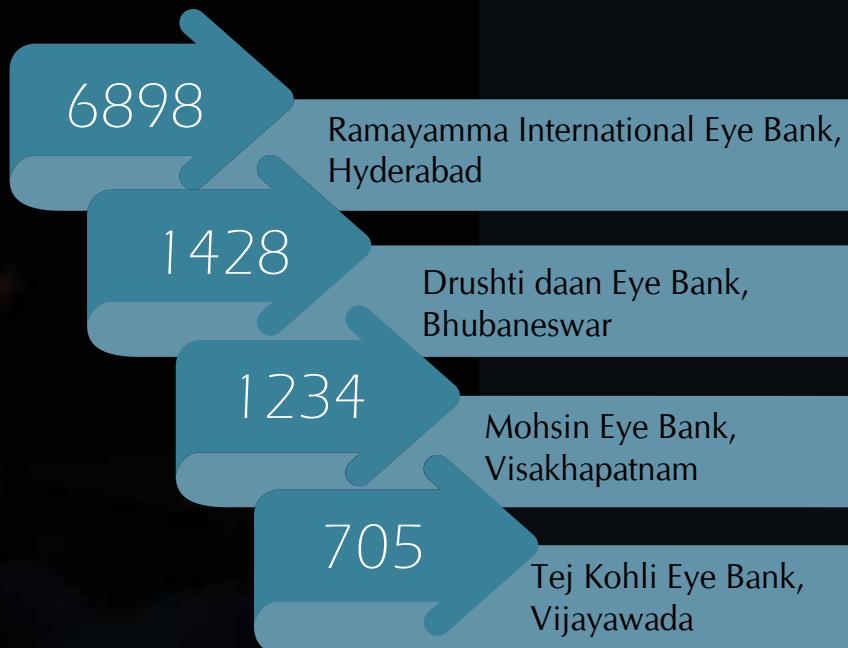
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**The best this year:** Ramayamma International Eye Bank achieved the milestone of collecting 76,000+ corneas since inception. Of these 40,600+ corneas were distributed for transplantation.

**Way forward:** To ensure that the availability of quality corneal tissue does not remain a barrier in tackling corneal blindness, we will continue to help other states and countries in setting-up successful and sustainable eye bank facilities.

”

# The LVPEI Eye Bank Network



**3136** Corneas distributed to LVPEI surgeons

**2909** Corneas distributed to surgeons outside the LVPEI network

**3674** Corneas used for training

**550** Corneas found not suitable for training

Crossed the 50K mark in cornea distribution

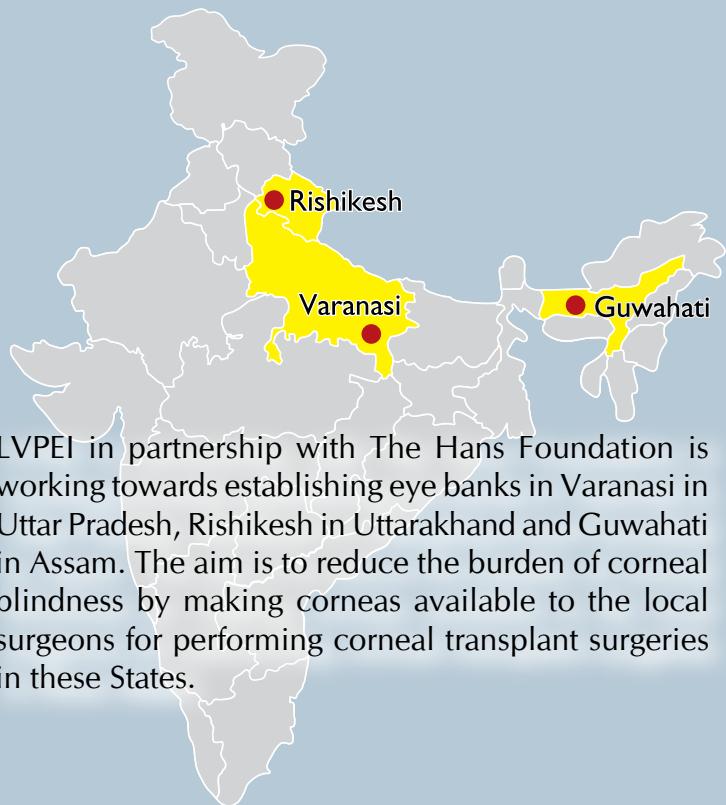
**52,426** corneas have been distributed since inception, of which **40,646** are by the Eye Bank facility at Hyderabad.

Crossed the 50K mark



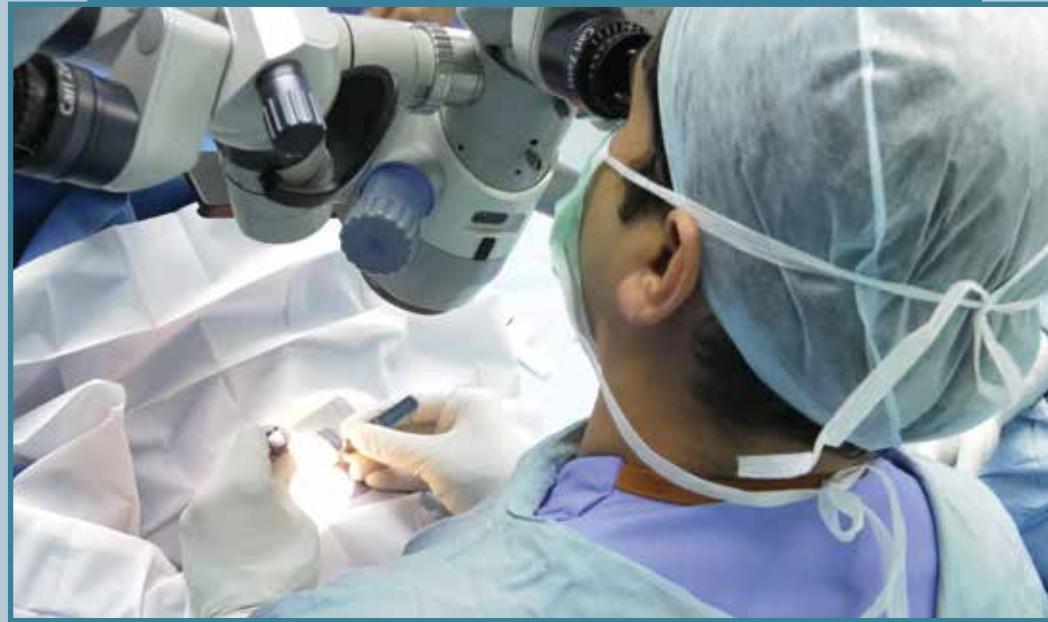
From 2016 to 2019, we performed more than 300 corneal transplant surgeries. In more than 90% of these cases, the surgeries have been successful with clear graft. The corneal tissues for these surgeries were provided to us by LVPEI. RIEB is truly a world class state-of-the-art Eye Bank facility which collects, processes and supplies excellent quality corneal tissues to numerous corneal surgeons across the country. ”

*Dr Arjun Srirampur  
Anand Eye Institute, Hyderabad*



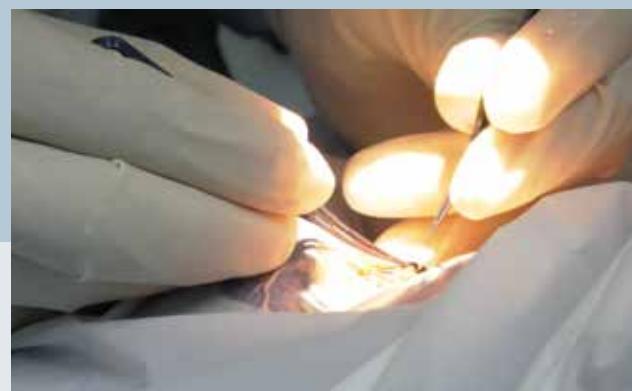
LVPEI in partnership with The Hans Foundation is working towards establishing eye banks in Varanasi in Uttar Pradesh, Rishikesh in Uttarakhand and Guwahati in Assam. The aim is to reduce the burden of corneal blindness by making corneas available to the local surgeons for performing corneal transplant surgeries in these States.

The youngest corneal transplant patient this year was a child aged 3 months and the oldest corneal transplant patient was aged 93 years.



LVPEI continues to be a world leader in eye banking services.

A series of eye donation awareness activities were carried out across the network.



Hospital Cornea Retrieval Program extended to 3 new hospitals in Balangir (Odisha), Hindupur (Andhra Pradesh) and Adilabad (Telangana).

**McCarey-Kaufman (MK) Medium**, cost effective solution is used for storage and preservation of donor corneas at LVPEI. **30,331** vials of MK medium were produced and 30,606 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. **2829** vials of AM were produced and 2865 AM supplied to surgeons within and outside LVPEI.

### Training eye care professionals in eye banking

6 ophthalmologists and 36 other cadres of eye banking personnel from all over India and abroad were provided training in eye banking techniques.



## Thank you for reducing the burden of corneal blindness from the world

*LVPEI is thankful to the families of its cornea donors and to its partner eye donation centres.*

**3417** donor corneas were collected from **39** centres that are part of LVPEI's eye banking affiliates.

ACSR Medical College, Nellore (16); Amrita Nursing Home, Vemulawada (2); Balaji Eye Care Trust, Anantapuramu (3); Basaveswara Teaching & General Hospital, Gulbarga (2); Chiranjeevi Charitable Trust, Hyderabad (86); District Head Quarters Hospital, Karimnagar (168)\*; District Hospital (HCRP)\*, Hindupur (2); **DBCS, Govt General Hospital (HCRP)\*, Anantapuramu (392)**; Gowthami Eye Institute, Rajahmundry (30); **DBCS, Regional Eye Hospital (HCRP)\*, Kurnool (692)**; Kalyan Magatapalli Eye Collection Center, Srikakulam (19); Kamineni Institute of Medical Sciences, Narketpally (16); Khammam Eye Bank, Khammam (68); Lions Club of Kamareddy, Kamareddy (4); Lions Club of Cherial, Cherial (2); Lions Club of Godavarikhani Spoorthy (8); **Red Cross Eye Bank, Lions Club of Karimnagar Charitable Eye Hospital, Karimnagar (324)**; Lions Club of Kesamudram, Kesamudram (4); Lions Club of Mahabubabad, Mahabubabad (2); Lions Club of Ramagundam, Ramagundam (34); Lions Club of Suryapet Eye Hospital, Suryapet (22); Lions Club of Thorrur, Thorrur (2); Lions Eye Hospital, Bodhan (66); Mamata Eye Bank, Khammam (2); Modern Eye Hospital, Nellore (99); Modern Eye Hospital & Research Center, Ongole (2); Mullapudi Venkatarayudu Eye Center, Tanuku (16); Pavani Eye Hospital, Jagital (2); **DBCS, Regional Eye Hospital (HCRP)\*, Warangal (959)**; Rajiv Gandhi Institute of Medical Sciences (HCRP)\*, Adilabad (2); Sai Jyothi Netradaana Foundation, Adoni (30); Sneha Sewa Samiti, Proddatur (2); Sri Yerra Balaramamurthy Konaseema Eye Bank, Ambajipeta (27); **Smt. Rajeswari Ramakrishnan Lions Eye Hospital, Nidadavole (195)**; Sudarsani Eye Hospital, Guntur (18); SVRR Govt General Hospital (HCRP)\*, Tirupati (87); Swapna Nursing Home, Guntakal (12).

*Highlighted are top 5 Major Contributors*

\*RIEB run HCRP Centres

# Academy for Eye Care Education



The Academy for Eye Care Education, recognized globally for eye care ophthalmic training, goes that extra mile to bring together the best faculty and the most promising students by providing them with the resources for a great learning experience. ISTART program (Introductory Surgical Training Across Specialties on the Right Track), Scholarly clinic, robust evaluation of clinical training were the complementing steps this year.



“

**The best this year:** Bringing together both clinical and non clinical faculty with allied interest (for cross talk) under a single umbrella of "Scholarly Clinic". This created fertile grounds for promising insights and future research.

**Way forward:** We would like to experience another adventure by building a different and passionate resource team called "Ophthalmic Educators" among our faculty with the perfect blend of classical education and contemporary skills.

”

Avinash Pathengay  
*Director,*  
*Academy for Eye Care Education*

**1438**

Trained through  
**36** Continuing Medical Education programs

on diverse subjects such as glaucoma implants, ocular oncology, binocular vision and orthoptics, contact lens, low vision management to optical spectacles dispensing, etc.

**549**

**485**  
National

**64**  
International

Trained through various long-term and short-term training programs

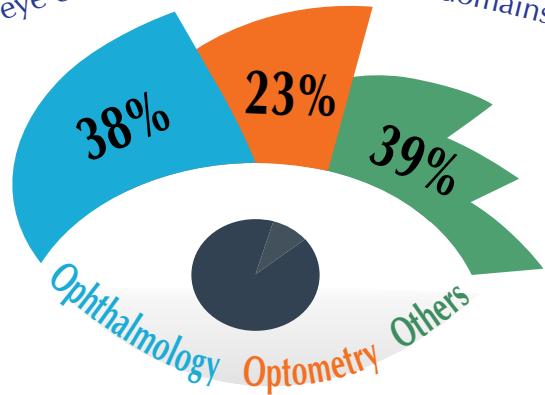
**100**

Continuing Professional Development and Technical Skill-Upgradation Programs were also organized for the LVPEI staff

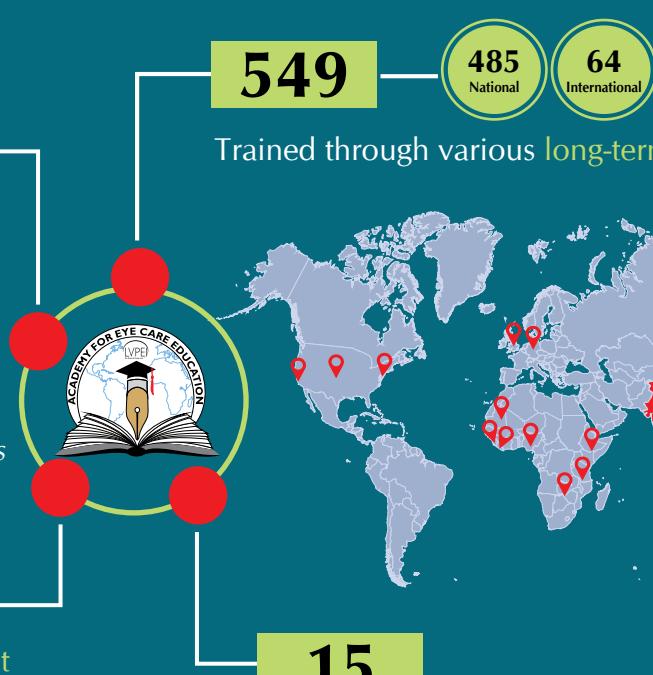
**15**

Guest lectures and Endowment lectures were organized

The training encompassed all cadres of eye care professionals in various domains



Others include Eye Banking, Public health and Community eye care, Low vision and vision rehabilitation, Ophthalmic nurse assistants & Vision technicians



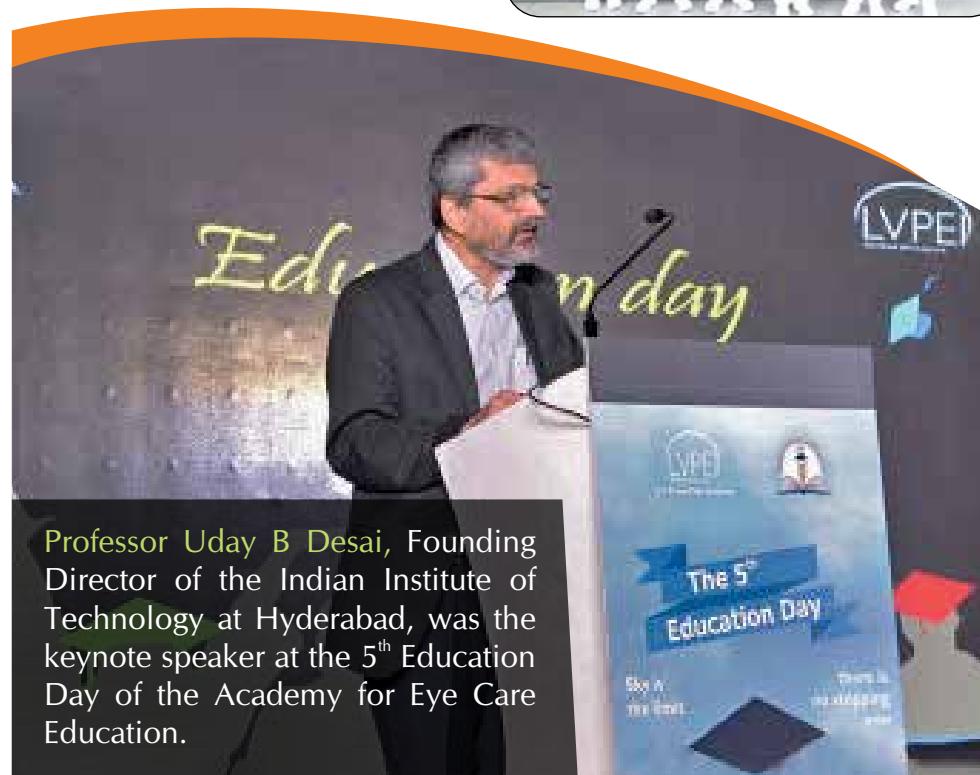
Ophthalmic Nurse Assistant (ONA) Training program is in joint collaboration with the leading University of Rochester. As a part of continuing collaborative activities, Mr Robert Dorman & Mr Terry Meacham visited LVPEI as adjunct instructors. This is what they had to say:

The commitment of faculty to the program and to the students continues to remain impressive and their growth as an instructor, administrator, personal mentor and friend to the students is awesome. They have not only educated themselves in the discipline, but have been able to successfully impart that knowledge to educationally challenged students in multiple languages. We loved our time with you and look forward to changing more lives – patients and staff included!"



A major milestone for the Residency Program has been the coveted Basic Surgical ICO Accreditation for Ophthalmic Residency Training by the International Council of Ophthalmology.

(A new residency program has been initiated at Liberia. For more details view page: 50)



Professor Uday B Desai, Founding Director of the Indian Institute of Technology at Hyderabad, was the keynote speaker at the 5<sup>th</sup> Education Day of the Academy for Eye Care Education.



A state-of-the-art **International Ophthalmic Dispensing Resource Centre** has been established with support from One Sight Foundation to provide comprehensive training covering all aspects of optical dispensing, edging and customer service including soft skills. A formal agreement has been signed between LVPEI's Brien Holden Institute of Optometry and Vision Sciences and Brien Holden Vision Institute at Australia to collaborate for a 'Practical Optical Dispensing Course' twice a year.



LVPEI is the technical and training partner for the **Telangana Kanti Velugu Project** a mass eye screening program launched by the Government of Telangana. Under this collaborative initiative, 852 Para-medical Ophthalmic Assistants, 858 Medical Officers and several other ASHA (Accredited Social Health Activist) and ANM (Auxiliary Nurse Midwifery) workers were trained on clinical techniques, preliminary vision screening and protocols.

We had the honour of having the below dignitaries as speakers during the year:

- **Dr Jerry Fanhole Brown**, Chief Executive Officer, John F Kennedy Medical Center, Monrovia, Liberia
- **Dr Miriam Conway**, Senior Lecturer, Optometry Department at City University London, London
- **Dr Marisa Rodriguez Carmona**, Lecturer in Optics in the School of Health Sciences at City University of London, London
- **Dr Sonia Guha**, Staff Scientist, Jules Stein Eye Institute, University of California, Los Angeles
- **Dr Ralph C Eagle Jr.**, Chief of the Pathology Service, Wills Eye Hospital, and Professor of Ophthalmology and Pathology, Sidney Kimmel Medical College, Philadelphia
- **Dr David Nash**, Dean, Jefferson College of Population Health
- **Prof Ken Nischal**, Professor of Ophthalmology, University of Pittsburgh School of Medicine, Philadelphia
- **Dr Anil Patel**, Consultant Global Health Care & Medical Device, R&D, Seattle
- **Professor Ravi Ramamurti**, DMSB Distinguished Professor of International Business & Strategy, Harvard Business School, Boston
- **Prof Serge Resnikoff**, Visiting Professor, University of New South Wales, Australia
  
- **Professor Akhila Bihari Ota**, Special Secretary, Director, SCSTRTI and Tribal Advisor to Government of Odisha, Bhubaneswar
- **Professor Anup K Ghosh**, Department of Materials Science and Engineering, IIT Delhi, Delhi
- **Dr Jayaraman Gowrishankar**, INSA Senior Scientist, Centre for DNA Fingerprinting and Diagnostics, Hyderabad
- **Mr Ashok Kumar**, Founder and Director, Bodhi Wellness, Hyderabad
- **Dr Rahul Panicker**, Chief Innovation Officer, Wadhwani Institute for Artificial Intelligence, Bangalore
- **Dr R D Ravindran**, Aravind Eye Care System, Madurai
- **Dr Richa Verma**, Senior Project Officer, IIT-Madras, Chennai

# Brien Holden Eye Research Centre



S Shivaji  
*Director,*  
*Prof Brien Holden Eye Research Centre*

The research arm of LVPEI is engaged in frontline research to unravel eye diseases and vision threatening conditions using the approaches of Cell Biology, Microbiology, Biochemistry, Immunology, Genetics and Genomics, Stem Cell Biology, Material Science and Vision Psychophysics. The overarching aim is to address issues responsible for vision impairment and blindness using the modern tools of biology, chemistry and physics.



**The best this year:** The Antonio Champalimaud Symposium oration by Prof Reza Dana, Harvard University, Massachusetts Eye and Ear, a world leader in immunobiology of cornea.

**Way forward:** We hope that with the existing zeal and enthusiasm, BHERC would become the one-stop centre for eye care and ocular research.

”

Publication with  
the highest  
Impact Factor:

79.26

Case study of a 41-year old woman with deteriorating vision since the past 20 years

She had undergone radial keratotomy with 16 corneal incisions to treat myopia 23 years back

She received a revised prescription and was educated on the importance of protective eyewear

At a 6-month follow-up visit, her vision had not deteriorated further.



**Objective:** To communicate to the medical fraternity, the importance of long-term clinical trials in establishing the safety and efficacy of novel surgical techniques.

**Authors:** Sahib Tuteja and Dr Muralidhar Ramappa.

Sahib from the University of Manchester, Manchester Medical School, spent a few days of his 6-week elective, shadowing Dr Muralidhar Ramappa across the cornea clinics and operating rooms, at LVPEI.

**Publication:** New England Journal of Medicine



Crossed the  
300 Publications  
mark this year,  
the highest ever!  
Average Impact Factor 2.5

### The other top four publications

- Bagga B, Joseph J, Garg P, Chandran K, Jayabhasker P, Manjulatha K, Sharma S. Efficacy of Topical Miltefosine in patients with Acanthamoeba Keratitis: A Pilot Study. Ophthalmology. 2018 Dec 17. pii: S0161-6420(18)32652-6. doi: 10.1016/j.ophtha.2018.12.028. [Epub ahead of print] PubMed PMID: 30572075.
- Rao Donthineni P, Kammari P, Shanbhag SS, Singh V, Das AV, Basu S. Incidence, demographics, types and risk factors of dry eye disease in India: Electronic medical records driven big data analytics report I. Ocul Surf. 2019 Feb 22. pii: S1542-0124(19)30043-6. doi: 10.1016/j.jtos.2019.02.007. [Epub ahead of print] PubMed PMID: 30802671.
- Deshmukh D, Joseph J, Chakrabarti M1, Sharma S1, Jayasudha R1, Sama KC1, Sontam B1, Tyagi M3, Narayanan R3, Shivaji S1. New insights into culture negative endophthalmitis by unbiased next generation sequencing. Sci Rep. 2019 Jan 29;9(1):844. doi: 10.1038/s41598-018-37502-w.
- Shivaji S, Jayasudha R, Sai Prashanthi G, Kalyana Chakravarthy S, Sharma S. The human ocular surface fungal microbiome. Invest Ophthalmol Vis Sci. 2019;60:451–459. https://doi.org/10.1167/iovs.18-26076

**Note:** The highlighted authors are from LVPEI



At the [twelfth Antonio Champalimaud Symposium](#), Professor Reza Dana of Harvard University, USA, delivered the oration lecture on 'The immunoregulatory mechanisms of the cornea and ocular surface - the known and the unknown'.

Additionally, there were two special lectures by: [Prof Antonio Parreira](#), Clinical Director of the Champalimaud Centre for the Unknown, Lisbon, Portugal on new approaches to win over cancer; and [Prof K Srinath Reddy](#) of the Public Health Foundation of India, New Delhi on cardiac diseases and the ways to address and reduce their incidence.

Champalimaud Centre for the Unknown's cancer program is the most advanced in the world. [With the aim to bring new insights and a therapeutic approach to the problem of eye cancer, an MoU was signed with the Champalimaud Foundation](#). The collaboration will aim to seek innovative and pioneering eye cancer treatment solutions, and also allow for genetic, molecular and cellular analysis.

*Dr Leonor Beleza, President, Antonio Champalimaud Foundation signing the MoU along with Prof Antonio Parreira, Clinical Director, Champalimaud Foundation.*



## New Introduction

Senior Research Fellowship for students with a minimum period of two years research experience and with a minimum of two good papers (at least one as a first author).





The 25<sup>th</sup> meeting of the Indian Eye Research Group (IERG) - Association for Research in Vision and Ophthalmology (ARVO) India was hosted by LVPEI at Hyderabad. Over 350 delegates and 13 international faculty comprising eye researchers, scientists, clinicians and optometrists attended it.



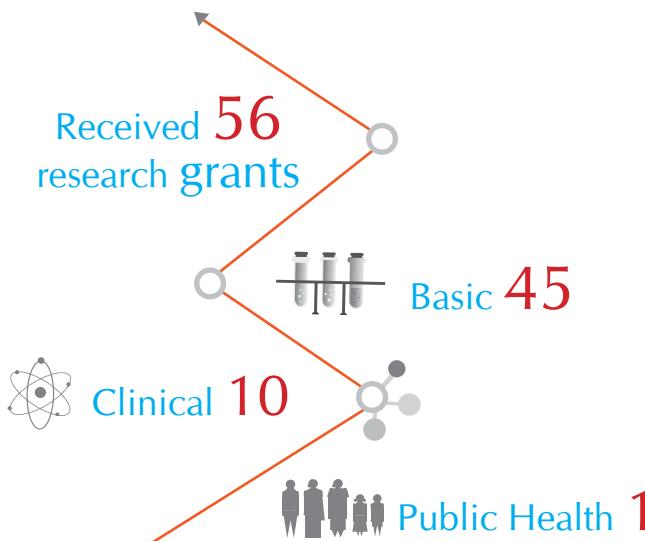
*Dr Justine Smith, Executive Vice President ARVO delivered the Bireswar Chakrabarti oration lecture and Dr Neeru Gupta, Vice President, International Council of Ophthalmology delivered the D Balasubramanian oration lecture.*



*Poster presentations were made by delegates.*

## Throwback

A few like-minded eye researchers from LVPEI, Centre for Cellular and Molecular Biology and National Institute of Nutrition in Hyderabad got together to form an informal research group by the name - Hyderabad Eye Research Group. In the course of time, other eye institutes across the country also joined and the organization was formally launched as the 'Indian Eye Research Group' that later in 2011 became an ARVO International Chapter Affiliate (ARVO-India). With a current membership of about 250 individuals, IERG is the biggest association of eye researchers in India, and LVPEI continues to play a very prominent role in it.



## Research Labs and Focus Areas

- Champalimaud Translational Centre for Eye Research
- Kallam Anji Reddy Molecular Genetics Laboratory
- Sudhakar and Sreekanth Ravi Stem Cell Biology Laboratory
- Jhaveri Microbiology Centre & Saroja A Rao Immunology Laboratory
- Biochemistry Laboratory
- Ophthalmic Pathology Laboratory
- Clinical Research
- Vision Psychophysics Laboratories
- Allen Foster Community Eye Health Research Centre
- LVPEI Center for Innovation

# LVPEI Center for Innovation



Ramam Atmakuri  
*Executive Vice-Chair,  
L V Prasad Eye Institute*

LVPEI is all about creating, sharing and practicing new knowledge. For us, innovation is happening at the intersection of engineering, ophthalmology and optometry with an end goal to transform the knowledge into products and services that impact the communities we serve. Our constant endeavour is to ensure that whatever we deliver should meet the 4 'A's - be Appropriate, Available, Accessible and Affordable to the world.



**The best this year:** Multi-disciplinary teams comprising ophthalmologists, optometrists, engineers, public health specialists and technicians unleashed the power of collaboration and delivered 8 indigenous products to cater to the needs of the LVPEI network and 2 products for the world at large.

**Way forward:** Scale and deliver more products to prevent needless blindness on the planet.

## Product Development

### Core principles



Five of the modules developed have now become products and are being validated within the network. With these products, LVPEI will be able to provide quality care, including care for geriatric and chronic eye problems, right at the doorsteps of the community even in the most remote rural locations.



**FoFo**, eco-friendly refractive error screening solution, is finding fans all over the world, with orders from Taiwan in the East to Mexico in the West, from England in the North to Sri Lanka in the South.



**Cyclops**, a tablet on slit lamp module, is being effectively used in LVPEI's 180 Vision centres to take high-quality images ideal for Tele-Ophthalmology.



**Pupil +**, a quantitative screening solution, is being used to quantify and measure pupillary and neurological responses to light stimulus. The product is being well received within the network.



**Order of Magnitude (OM)**, aims to democratize vision assessment and helps in screening populations at scale for 10x less money and 10x faster - as effectively as the current gold standards.

# Ophthalmic Engineering



## Engineering products developed in-house:

60 new Ophthalmic Products were introduced in the LVPEI network. **10 fold increase in affordability with no compromise on quality.**

1000+ surgeries recorded by the indigenously developed surgical camera and software 'Universal Image Capturing Software' to optimize medical imaging. **30 times more affordable than comparable products.**

## BostonSight Lens Manufacturing Lab

The production of lenses started in February 2018 and since then 1341 lenses have been dispatched to 24 partner hospitals and clinicians in India. **Received 100% satisfaction report on quality and quick turnaround time.**

Plans are underway for accreditation by ISO 13485 quality management system.

## Medtech Incubator

Work in progress to have a Medtech Incubator which will be a state-of-the-art design, knowledge and prototyping centre. This will help in coming up with industry standard medical device and prototypes.

## Thermal Imaging Lab

Established in collaboration with the University of British Columbia and IIT Hyderabad, and funded by the Government of India and Canada, it will help to:

- Study eye infections and dry eye diseases
- Design affordable diagnostic tools for rural eye care initiatives

## Research work

The parameters contributing to the outcomes of corneal surgeries are being studied using Finite Element Modeling Technique. This is done by creating simulations which help in analysing the behaviour of the cornea which otherwise is difficult to study.

Developed machine learning and AI algorithms for quantification of specific clinical features of various retinal diseases for automated disease screening. This has been carried out on limited datasets and the results are encouraging.

Bigger trials will be carried out soon.

Integrates teleophthalmology, machine learning and data analytics seamlessly all in one platform



Clocked in  
5 million consultations  
2.3 million unique patients

Its Data Science (AEye) has led to the publication of the first 1.45 million cohort paper on demographics and risk factors of Dry Eye Disease

- eyeSmart is an awarding winning in-house developed Electronic Medical Record (EMR) system
- Integrated in August 2010 for the first time in the city centre in Hyderabad
- By 2017, all the centres of LVPEI right from the vision centres to tertiary and advanced tertiary were digitalized
- Installed at the Liberia Eye Center in Monrovia, a first in the region

**110,000** patients seen across LVPEI's  
**15** customer sites in India and Nigeria

Pilots being explored in **7** more countries



# Capacity building



Capacity building initiatives focus on providing strategic and technical assistance by standardizing

- Systems of patient care
- Human resource management
- Financial processes
- Hospital management

Helping partner hospitals in replicating the vision centre model in their own communities, and initiating community eye care programs is another major focus area.



Supporting organizations	Programs supported
Bausch and Lomb India Ltd	3
CBM	7
Lions Clubs International Foundation	6
LVPEI affiliates and partners	9
Operation Eyesight Universal	33
Orbis International	26
Other Organizations	45
Rotary International	80
SEVA Foundation	12
SIB - Standard Chartered Bank	4
<b>Total</b>	<b>225</b>

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

**304%** Outpatients

**306%** Dispensing spectacles

**295 %** Surgeries

Facilitated opening of **50+** Vision Centres through our partner hospitals

# Ongoing projects



Currently LVPEI is supporting **14** hospitals



**60** people were trained in various eye care programs, including community eye care and optical dispensing and retail



"Since 2016, thanks to the mentorship support we have received from LVPEI, we have been able to scale up and upgrade our patient care services. We have also initiated many community and school screening programs. Annually through these programs, we are able to examine nearly 20,800 people and 18,000 children."

LVPEI supported us technically to start a secondary centre at Jalore - one of the most remote rural locations at Rajasthan. Over 900 cataract surgeries have been performed here in the past two years.

One of our team members did a one-year diploma in eye health management and two of our optometrists received training in optical dispensing and edging. This has proved to be a great asset to our hospital."

*Mr Jagat Pratap Singh, J Watumul Global Hospital & Research Centre, Mount Abu, Rajasthan*

# Advocacy Policy Planning

A World Health Organization (WHO) Collaborating Centre for the Prevention of Blindness

One of the only eight centres around the world in the area of prevention of blindness

**Team representation:** Important positions in many global level advocacy committees such as:

- World Health Organization
- International Agency for the Prevention of Blindness
- India Vision 2020, the Right to Sight initiative
- Commonwealth Eye Health Consortium
- Universal Eye Health Program – an initiative by the Government of Odisha
- Telangana Kanti Velugu Project
- Ministry of Health's National ROP (Retinopathy of Prematurity) Task Force



WHO workshop on 'Patient Safety and Improved Treatment Outcomes' was hosted by LVPEI, coinciding with the IAPB Council of Members General Assembly in 2018.

**LVPEI** is actively engaged in policy making, planning and execution of programs for prevention of avoidable blindness and vision impairment. The institute's vision centre model is emulated the world over for providing primary eye care.

**Universal Eye Health initiatives:** Playing a key role in the implementation of various eye health initiatives by the state government. The important among them:

**Telangana Kanti Velugu Project:** Technical partner for the massive **community eye screening program** initiated by the Government of Telangana from the period August 2018 to February 2019. 47 vision technicians from LVPEI under the leadership of **Dr Srinivas Marmamula** screened 920,611 people in and around Hyderabad. Spectacles were prescribed to 204,002 people, spectacles were provided to 125,755 people and 66,718 people were referred for further examination and care.

**Universal Eye Health Programs, Government of Odisha:** Official partner for the National Health Mission – Odisha State Health and Family Welfare department to provide the best quality **eye healthcare to children**. Between November 2018 to January 2019, 2402 children were screened, 27 children were referred for further care and spectacles were distributed to 143 children. As part of the Government of Odisha **Sunetra** program which is conceptualized and led by **Dr Taraprasad Das**, 53 rural, 6 mobile and 7 urban vision clinics have been set-up. 206 ophthalmic assistants have undergone skill upgradation and technical courses for ophthalmic and surgical assistants are ongoing.



Children being examined under a school screening program organized as part of Universal Eye Health Program, Government of Odisha.

**Raising awareness:** To create awareness in the general public, a series of activities were organized throughout the network on important 'Weeks' associated with Glaucoma, Children's Eye Care, World Sight Day and Eye Cancer.



**Whitathon Run** was an initiative by LVPEI to raise awareness and funds for the treatment of poor children with eye cancer. 1147 treatments for retinoblastoma eye cancer were done free of cost, thanks to the funds raised through Whitathon 2018.



Creating awareness regarding glaucoma and good children's eye care practices.



## Partnership at Liberia going strong

The Liberia Eye Center is the first outside India where LVPEI is directly involved in the overall management.

**Clinical Care:** Since the Liberia Eye Center was established in 2017 at the John F. Kennedy Medical Center with the support extended by LVPEI, the various sub specialists from the institute are visiting the center on a periodic basis to examine complex cases and perform surgeries.



*Complex surgeries such as corneal transplant, glaucoma, squint, oculoplasty etc. are now being performed at this centre.*

### Community Eye Care Initiatives:

55 community outreach programs

1589 diagnosed with refractive errors

5605 referred for further care

18 school screening programs

102 diagnosed with refractive errors

68 referred for further care

98 teachers trained

Establishing a Comprehensive self-sustaining eye health initiative in Liberia

**Education and Capacity Building:** Efforts are ongoing to train and enhance the skills of eye care professionals across all cadres including ophthalmologists, optometrists, vision technicians and ophthalmic nursing assistants to ensure that going forward they will be able to run the centre independently.



LVPEI launched the Liberian Residency program in Ophthalmology in partnership with the Liberian College of Physicians and Surgeons.

The Liberia Eye Center has received support from Lions Club International Foundation, Operation Eyesight Universal, OneSight, EYElliance and LDS Charities.

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



## Institutes of Excellence at LVPEI

Tej Kohli Cornea Institute

Academy for Eye Care Education

Child Sight Institute

Institute for Vision Rehabilitation

Aurobindo Geriatric Eye Care Centre

Operation Eye Sight Universal Institute for Eye Cancer

Govindram Seksaria Institute of Dacryology

LVPEI is also relentlessly working towards the establishment of:

Institute for Regenerative Ophthalmology

Centre of Excellence in Eye Banking

Retina Institute

Glaucoma Institute





## Leveraging Solar Energy

CO<sub>2</sub> reduction to the tune of 480 tons.

By 2020, the plan is to implement solar systems in all secondary, tertiary and advanced centres.

Solar rooftop energy systems are deployed at 9 centres in the LVPEI eye care network.

600,000 units of energy requirement are met through solar energy annually.

Solar water heating systems have been put into use in the hostels at Kismatpur, thereby replacing electricity driven water heaters and addressing the campus' water heating requirement completely through renewable options.

It is estimated that the investment made on installing solar panels will be recovered within 4 years from the date of installation and for another 15 to 20 years, energy generated through these solar panels will directly help in saving the recurring energy costs.



Solar power panels at Visakhapatnam campus

# Green Buildings

- » Most of our campuses use around 30% of the area for buildings and the remaining 70% for plantation and green landscaping
- » Stone flooring and fly ash bricks are used for keeping the temperatures down
- » Energy saving lights are used and the Air Conditioner temperatures are maintained at minimum 24°C
- » The use of air conditioners and additional light requirements is minimized by relying more on natural ventilation
- » Rainwater harvest pits are in use in all campuses to recharge ground water
- » Use of recycled water from sewerage treatment plants for gardening, toilet flushing, etc.
- » Biowaste recycling plants have been installed on a pilot basis in larger campuses



Picturesque scenes from two of our tertiary campuses at Vijayawada and Bhubaneswar

**Andrew Fleming**  
@Andrew007UK [Follow](#)

High praise for @lvprasadeye - one of the first large organisations I have visited in #Hyderabad to be bringing a zero plastic policy to their boardroom.

Hope many more can follow.



**Andrew Fleming**  
@Andrew007UK [Follow](#)

I felt @lvprasadeye in no way felt like a hospital or clinic. Unique designs including this wonderful terrace inspired by the thousand pillar temple in #Warangal affording a stunning view over #Begumpet.



A snapshot of the series of tweets by Andrew Fleming, British Deputy High Commissioner after his visit to LVPEI



Rural  
Eye Health

Advocacy

Policy  
Planning

Clinical Care

Vision  
Rehabilitation

Eye Bank

Education

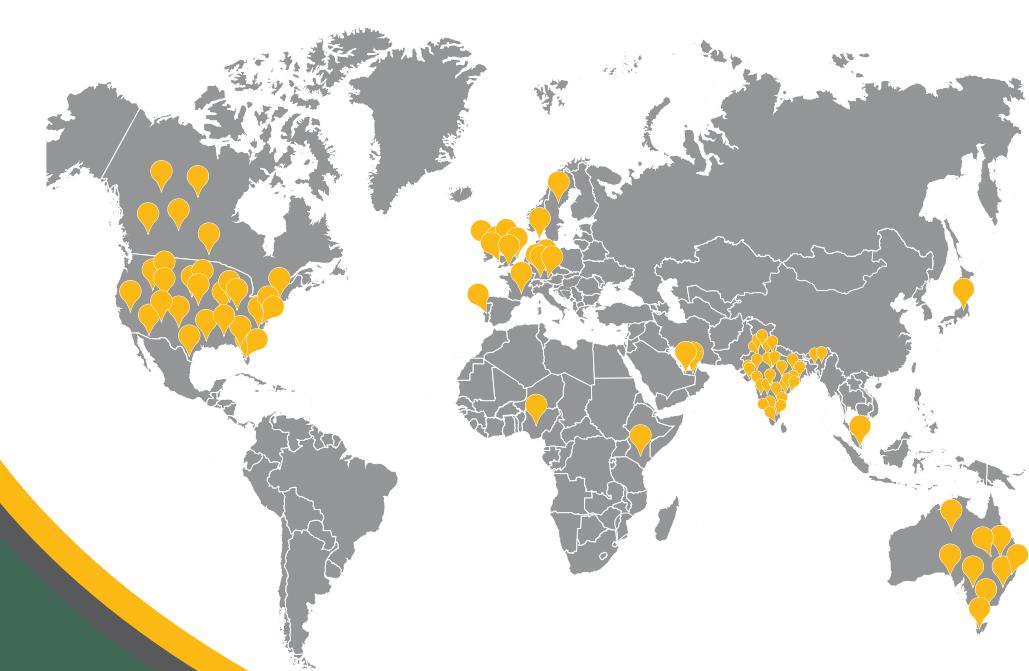
Research

Capacity  
Building

Technology  
Innovation

Product  
Development





The 32-year long journey of LVPEI wouldn't have been possible without the support the Institute received from many of its well-wishers and donors from across the globe. As always, we are humbled by their generosity and extend our sincere thanks to each one of them. Your donations have impacted the lives of 28.48 million people and will continue to make a difference in the lives of many more by ensuring them better vision and an enhanced quality of life.

## Thanking Our Donors

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G Srikrishna, India	Jeevan S. Ahuja, USA	Koshi Lalgehi, India	Micro Vision, India
Ganapath Rai Tibrewala Trust, India	Jiv Daya Foundation, USA	Koteswara Rao S S R, India	
Gangabhisban Bhikulal Int Ltd., India	Joyalukkas Foundation, India	Krishna D Pinisetty, India	
Gati Kintetsu Express Pvt Ltd., India	Jyothsana Akkineni, India	Kuchakulla Sowbhagya, India	
Gebauer Medizintechnik GMBH, Germany		L Dadlani, India	

Milmet Laboratories Pvt Ltd., India	Padma & Prasad Guntupalli, USA	Ramesh Chand Agarwal, India	Shanta & Rajendra Prasad Challa, India
Miriam Hyman Memorial Trust, UK	Padma & V Neelakanta Rao Dantu, India	Ramesh Chandra V Doshi, India	Shanta Biotech Pvt Ltd., India
Misereor, Germany	Padmini Gopalakrishnan, India	Ramesh Kekunnaya, India	Shantilal Jain, India
Mitsuaki Aoki, India	Palle Rama Rao, India	Ramesh Mantri, India	Shashi Kant Mahajan, India
Mphasis Limited, India	Pandrol Rahee Technologies Pvt. Ltd., India	Rampion Eyetech Pvt Ltd., India	Sheshi & Mr Ravinder Sharma, USA
Murali K Divi, India	Parasakti Cement Industries Ltd., India	Ranasaria Poly Pack Private Limited, India	Shilendra Swarup, India
N Laxmi, India	Paresh Karia, India	Rao Vallabhaneni, USA	Shivaji Sisinty, India
Nalini & Ratnam V Mullapudi, USA	Pershad Sanghi, India	Rashmi & Dinesh Chawla, USA	Shobha & Aashish Boghani, USA
Nalini Seksaria, India	Persistent Foundation, India	Ratna Tulasi & Dr B R Yelamanchili, USA	Shobha & Aashish Boghani, India
Narendra Kumar Mor, India	Personnel Search Services Pvt Ltd., India	Ravela Timbers, India	Shree Govindram Seksaria Charity Trust, India
Nasscom Foundation, India	Pharm Aromatic Chemicals, India	Retina Associates Eye Foundation, India	Shri Adinath Netralay, Veerayatan-Palitana, India
National Litho Printers, India	Pinnamaneni Poly Clinic, India	Richa & Lal Gehi, India	Shri Kudil Govindram Seksaria Foundation, India
Nava Bharat Energy India Ltd., India	Pinnamaneni Trivikrama Prasad, India	Rita & Bill Bourne, USA	Shrinivasan Shesha Iyengar, India
Nayudamma Foundation and Rural Development, India	Pola Radhakrishna, India	Rithwik Projects Private Limited, India	Shyam Choudary, USA
Nicholos Lee, Singapore	Polymer Technology Inc, USA	Rohit Hegde, India	Shyam Prabhaker, USA
Nikhil Dujari, India	Prabha & Surya Prakash, India	Roshan M Patel, India	SICE India Private Limited, India
Nikhil Gokhale, India	Prafulla & Harnath Babu Koneru, USA	Rotary Club Hamburg – ELBE, Germany	Sight Life, USA
Nilanjan Joardar, India	Prakash Chandra Mohanty, India	Rotary Deutschland Gemeindienst, Germany	Sight Savers International, UK
Nirmal Kumar Bagaria & Sunita Bagaria, India	Prashant Garg, India	RSB Charitable Trust, India	Siris Ltd., India
Nissar Ahmed Siddiqui, India	Pravin Kumar Tandlay, India	Rustom D Ranji, India	Sitamma & Rattayya Vallurupalli, India
Novartis Healthcare Pvt Ltd., India	Prema & H V Janardhan, USA	S R K Consultants, India	Social Empowerment and Economic Development Society (SEEDS), India
Nurbanu & Amir Hemani, India	PremNandhini Satgunam, India	S R L Diagnostics, India	Sohani Charitable Trust, India
O P Tibrewala Foundation, India	Purushottam Lal Agarwal, India	S Srinivasan, India	Somasheila Murthy, India
Okoro Desmond Osoken, Nigeria	Pushpa Bansal, India	S V Saikumar, India	Sowjanya Kilaru, USA
One Sight Foundation, USA	R C I Logistics Pvt. Ltd., India	Sagar Business Private Limited, India	Sreedevi & Suresh Challa, India
One Sight India Foundation, India	R V R Projects Private Limited, India	Sai Sri Printers, India	Sreedevi Penmetcha, India
Optival Health Solutions Pvt. Ltd., India	Radha & Mr G G Vaidya, India	Sajid Ali, USA	Sri Aruna Auto Service Limited, India
Orson Holdings Company Limited, India	Radhabai Palnitkar Medical Education Society, India	Salarpuria Jajodia & Co, India	Sri Krishna Jewellery Mart, India
Oshiwara Land Dev Co Ltd., India	Rajashree Pinnamaneni, India	Sangeeta Wagh, India	Sri Rama Raju Charitable Trust, India
P B Charitable Foundation Trust, India	Rajendra Prasad Bhatt, USA	Santen Inc., USA	Sri Ramdas Motor Transport, India
P Jaya Bharati, India	Rajendra Y Angle, India	Santosh Honavar, India	Sri Rameswar Ram Charities, India
P K Bakshi, India	Rajiv Gandhi Centre for Biotechnology, India	Saranya & Bapineedu Gondi, USA	St. Jude Medical India Pvt Ltd., India
P K Business Enterprise Ltd., India	Rakesh Chandra Tripathi, India	Sarva Kalyan Kosh, India	State Bank of India, India
P K Kanoria, India	Ramadevi & Vijay Chintalapudi, India	Sasanala Bhavani Sirisha, India	Subhabrata Chakrabarti, India
P K Sai Prakash, India	Ramakrishna Kode, India	Sashi & Ravinder Sharma, USA	Subhadra and Subhash Kaul, India
P M I Organization Centre Pvt Ltd., India	Ramakrishna Poddar Smarak Nidhi, India	Satish, India	Sudershan Drugs & International Ltd., India
P Narendra & P Mahendra, India	Ramakrishna Ramaswamy, India	Satyam Enterprises, India	Sudhir Prakash / Darshanlal Anand
P Rama Devi, India	Ramchandra Jadhav, India	Science & Engineering Research Board (SERB), India	Prakash & Sons Pvt. Ltd., India
P V K S Varma, India		Shalini Rao & Justice M N Rao, India	Sudhir R Doshi, India
Pabba Shankaraiah, India		Sham Sunder Kanoria, India	

Suha Devi Poddar Charitable Trust,  
India  
Suhasini Ravipati, India  
Sujatha & Dr Y A Kesava Rao, USA  
Summit Furnishers, India  
Sunil Kumar Singh, India  
Supra Enterprises, India  
Sutherland Healthcare Solutions Pvt.  
Ltd., India  
Swadesh Kapoor, India  
Swarna Kumari & Dr N U Rao, India  
Syamala & C S Bhaskaran, India  
Synchrony International Services Pvt  
Limited, India  
Synergies Castings Limited, India  
T L Prasad, India  
T Lakshmi Jhunjhunwala, India  
T N C Rangarajan, India  
T Padmanabhan, India  
T S R Anjaneyulu, India  
Tariq Basheer, UAE  
Tata Steel Foundation, India  
Tear Lab Corporation, USA  
Tech Mahindra Foundation, India  
The Association for Research in Vision  
and Ophthalmology [ARVO], USA  
The Davars & Unnavas Family,  
Australia & India  
Thomas Minner, USA  
Tirupati Traders, India  
Tolaram Ratanlal Goenka Trust, India  
Trigeo Technologies Pvt Ltd., India  
Tulsian Charitable Trust, India  
Tyle Family Limited Partnership, USA  
UK Online Giving Foundation, UK  
Uma Aisola, India  
Uma Rao & Ram Mohan Rao (N  
Venkataswami Chetty Charitable  
Trust), India  
Union Bank of India, India  
United States Agency for International  
Development, USA

Universal Cine Traders Pvt. Ltd., India  
University of Hamburg, Germany  
University of New South Wales,  
Australia  
University of Nottingham, UK  
University Grants Commission, India  
Uppuluri Chowdary, USA  
Usha Gopinathan, India  
Usha Kumar Savitri & S L Kumar  
Sadbhavana Trust, India  
V Anasuya Devi, India  
V Rajeswari, India  
Vaibhav Empire Pvt Ltd., India  
Veeramachaneni Sarojini, India  
Vemulapalli Sarojini, India  
Vemulapalli Sunitha, India  
Vijay Laxmi Inani & Jagdish Chandra  
Inani, India  
Vijaya Kumari & Anil K Mandal, India  
Vijaya L Ramam, India  
Vijaya Nagar Bio Tech Ltd., India  
Vijayakumar Chilakapati, USA  
Vijayakumari Vellanki, India  
Vijaychandra N Cantol, India  
Vijaydurga Beverages, India  
Vineet Kumar Lalani, India  
Virender S Sangwan, India  
Vision Care, India  
Vivekananda Health Centre, India  
Warby Parker, USA  
Western Transport Agency, India  
Whishworks IT Consulting Pvt. Ltd.,  
India  
Y C Mruthyunjaya, USA  
Y Madanamohana Rao, India  
Yasho Industries Limited, India  
Youdan Marketing, India  
YourCause, USA  
Zen Quality Assurance Pvt. Ltd., India  
Zurich Financial Services, UK

## Support during the Year

### **Amravati**

Sarang Atul Lahoti

### **Anantapur**

P Atchutamma Janaki

### **Ahmedabad**

Aditya Sanghi

Kalpana U Parikh

Lambda Therapeutic Research Limited

Ranasaria Poly Pack Pvt. Ltd

### **Bengaluru**

Acuitic Consulting Engineers

Alcon Laboratories (India) Pvt. Ltd

Aninda Bhattacharya

Ashwin Suresh

B R Ravindranath

Biomedix Optotechnik & Devices Pvt.  
Ltd

Carl Zeiss India (Bangalore) Pvt. Ltd

Chirstofil Blindenmission

Clintec (India) International Pvt. Ltd

Ecron Acunova Limited

Essilor India Pvt. Ltd

Hegde Sharat Shivaramaiah

Kishore Naga Iruvanti

Lakshmi Shinde

Mobility India

Parexcel International Clinical Research  
Pvt. Ltd

The Indian Society of the Church of  
Jesus Christ and the Latter Day Saints

Titan Company Limited

### **Bhachau (Gujarat)**

Thakur Paresh N

### **Bhadradri (Telangana)**

K Jagan Mohan Rao

Ramaiah

### **Bhavnagar (Gujarat)**

Shri Adinath Netralay, Veerayatan-  
Palitana

### **Bhubaneswar**

Drushti Daan Eye Bank

Gokulananda Dash

Inservia Innovations Pvt. Ltd

Sagar Business Private Limited

Soumyava Basu

Vineet Kumar Lalani

Vision Care

### **Canada**

Ateeq Ur Rahaman

Eyesight International

Operation Eyesight Universal

### **Chennai**

Adityavardhan ChavaliCognizant  
Foundation

Darshan Dollu Lalithkumar

Eckert Ziegler Bebig GMBH

Maruti Opticians

### **Chhattisgarh**

Ashraf Mohammad

### **Cuttack**

Ketan Mohanty

### **Dhaka**

Raihanur Rahman Bijoy

### **Durgapur**

Jayanta Kumar Chakraborty

### **East Godavari**

Kocherlakota Bapanamma

Nagamani Kuchmanchi

### **Faridabad**

JSS Medical Research India Pvt. Ltd

Vinay Goenka

### **France**

Eye Tech Care

### **Germany**

Brigitte Roder

Gebauer Medizintechnik GMBH

Rotary Club Hamburg – ELBE

Rotary Deutschland Gemeindienst University of Hamburg	Boorgu Padma C H Surya Prakash Charanya Ramachandran Chemtech Acids & Chemical Pvt. Ltd Chitra Kannabiran Cipla Limited Comake It Software Limited Cushman & Wakefield India Pvt. Ltd D Balasubramanian Dalbir Suhag Dastrala Sreenivasa Rao Davidson Pest Control Devireddy Sarada Charitable Trust Dr Reddy's Foundation E S Manjula Future Retail Limited Futures First Info Services Pvt. Ltd G Bhargavi G Chandra Shekar G Srikrishna Gati Kintetsu Express Pvt. Ltd Geeta K Vemuganti GPR ICARE Team GSR Hospitality Services Gullapalli Nageswara Rao H Rama Lakshmi Hartex Rubber Pvt Ltd Helping Hands of Rotary Trust Hetero Foundation HIL Limited Hy Magnetics Pvt. Ltd I Base Software Solutions (India) Pvt. Ltd IDBI Bank Ltd Ilios Power Pvt. Ltd Infor (India) Pvt. Ltd Integrated Cleanroom Technologies Pvt. Ltd Jagadesh C Reddy Jagan Mohan Reddy K Aruna K Bhanumurti	K Chandra Sekhar K H Sunitha K Raghavendra Rao K Ravi Chandra K Venkat Kaffeez Kamala Menon Cochran Kapil Kumar Aasat Kedar Umesh Mohite Kiran Chander Konduri Nandakumar Koteswara Rao S S R Krishna Prema Kattirisetty L Sita Ratnam Laurus Labs Limited Lions Club International Foundation Lyophilization Systems India Pvt. Ltd M Rammohan Rao Megha Sharda Microsoft India Monideepa Chakravarti Moparthi Anuradha Moram Sankaram Muppavarapu Harshavardhan N Parvata Vardhamma Nasscom Foundation Nava Bharat Energy India Ltd Neeti Vipul Shah Nikhil Shreeram Choudhari O P Tibrewala Foundation Om Tao Scientific Apparatus Optival Health Solutions Pvt. Ltd P K Sai Prakash P R Italia Padmini Gopalakrishnan Pallaprolu Venkata Nagendra Reddy Pankaj Sharma Paradise Food Court Pvt. Ltd Parimala Srinivasan Pavuluru Ajitha Pondicherry Kuppuswamy Sai Prakash Prasad Media Corporation Pvt. Ltd	Prashant Garg Pratibha Rao Gullapalli Pravin Krishna Vaddavalli PremNandhini Satgunam Pushottam Kulkarni Pushpa Bansal Railtel Corporation of India Limited Raja Narayanan Raja Rathna Sai Rajeev Nannapaneni Ramadevi & Vijay Chintalapudi Ramakrishna Vooda Ravi Krishnamoorthy RCI Logistics Pvt. Ltd Rehan NoronhaRotary Club of Hyderabad Deccan Rounak Gupta S Trinath Sridhar S V Ramachandra Rao Sadhika Nangia Sai Life Sciences Limited Sai Security Services Pvt. Ltd Sanjay Kotgiri Sayan Basu Seshmal Jain Shanti Bhai Shivaji Sisinthy Sirisha Senthil Sonal Agarwal Sraven Kumar Reddy G Subhabrata Chakrabarti Subhadra Kaul Suhasini Ravipati Sukla Mitra Summit Furnishers Sundaram Finance Ltd Sunkara Rajkumari Surya Kaladhar Madhavapeddi Susarla Maruthi Sravya Sutherland Healthcare Solutions Pvt. Ltd Suven Trust
<b>Guntur</b> Nayudamma Foundation and Rural Development Ratna Babu			
<b>Gurgaon</b> Aanchal Jain AT&T Global Business Services India Pvt. Ltd Kendle India Private Limited Letz Change Foundation Manasvi Srivastava Ramya Buildcon Pvt. Ltd Tej Kohli			
<b>Howrah</b> Pandrol Rahee Technologies Pvt. Ltd			
<b>Hyderabad</b> A Ramachandra Rao A S Chowdhari Nava Bharat Foundation A2Z Infraservices Ltd Accurate Green Meadows Developers Aditya Kothari Agarwal Rubber Limited Agni D Associates Alcon Laboratories India Pvt. Ltd Amrutha Sales Corporation Annulus Medicorp Aravinda Krishna Archana Bhargava Aruna Gorantla Ashok Kumar Malpani Asian Engineering (P) Ltd Asian Surgical Company Aswini Homeo & Ayurvedic Products Pvt. Ltd Atmakuri Venkata Ramam Bhanumathi Ganapathiraju BHEL-GE Gas Turbine Services Pvt. Ltd Bodapati Siva Shanker Prasad			

Swapna Satish Shanbhag	Shanker Coils Private Limited	Rajendra Y Angle	Ongole
Synchrony International Services Pvt. Ltd	Shashi Kant Mahajan	Ramesh Mantri	Oggu Ranganayakamma
T N C Rangarajan	Subhshree Logistics LLP	REL Life Sciences Pvt. Ltd	<b>Patna</b>
T Padmanabhan	<b>Lucknow</b>	Shree Govindram Seksaria Charity Trust	B M W Ventures Ltd
Tagore Reddy Boyella	Sunil Kumar Singh	Shri Kudilal Govindram Seksaria Foundation	<b>Portugal</b>
Tata Steel Foundation	<b>Mahbubnagar</b>	Siddhesh Bhupal Chavan	Champalimaud Foundation
Tech Mahindra Foundation	K R Nagamani	Standard Chartered Bank	<b>Pune</b>
Tia Malpani	<b>Mangaluru</b>	Veena Bharat Patel	Jay Sinh Konkar
V Kannan	Mukund Pai Manjeswar	Vijay Kumar Mucheli	Kalpesh S Patil
V S G Chandra Sekhar	<b>Manipal</b>	Yasho Industries Limited	Persistent Foundation
V V Ramalingam	M S Valiathan	<b>Nagarkurnool</b>	Shrikant Pan Walkar
V V Sharma	<b>Mumbai</b>	Kuchakulla Prachita	<b>Raipur</b>
ValueMomentum Software Services Pvt. Ltd.	Abhishek Gajanan Samant	<b>Nagpur</b>	P B Charitable Foundation Trust
Vijay Kumar	Alankar Traders	Deepika Jai Pratap Singh	<b>Rajkot</b>
Vijaya L Ramam	Alkem Laboratories Ltd	<b>New Delhi</b>	Kurangi Desai
Vijayakumari Vellanki	Ashoka Alpha Advisers LLP	Biotechnology Industry Research Assistance Council (BIRAC)	<b>Ratlam</b>
Vinayak Eswaran	Balaji Trading Co	CSIR Fellowship	Sudhir Kumar Lasod
Vipul Harilal Shah	Beena M Thakkar	CanKids... KidsCan	<b>Siliguri</b>
Vishal Surgical Equipment Company	Behram Rustom Sethna	Charities Aid Foundation India	Rajesh Bansal
Vitas Pharma Research Pvt. Ltd	Bharat Govind Bhamhani	Department of Biotechnology	<b>Singapore</b>
Vivek Dave Pravin	Covance India Pharmaceuticals Services India Pvt. Ltd	Department of Science & Technology	Asia Cornea Foundation
Vivekananda Health Centre	Delta Lens Pvt Ltd	Hoya Medical India Pvt. Ltd	Nicholos Lee
Whishworks IT Consulting Pvt. Ltd	Dhan Behram Bhappu	Indian Council of Medical Research	<b>Surat</b>
Yogesh Patil	Dilip Shantilal Shangvi	K C Dhimole	Rajesh Chandrakant
Zen Quality Assurance Pvt. Ltd	Entod Pharmaceuticals Limited	Muppavarapu Venkaiah Naidu	Kusum S Patel
<b>Israel</b>	FDC Private Limited (Pixel Division)	Public Health Foundation of India	<b>Sydney</b>
Eye Yon Medical Ltd	Godrej Consumer Products Ltd	Ramakrishna Ramaswamy	Andrea Stern
<b>Jabalpur</b>	Gouri Prasanna Dash	Science & Engineering Research Board (SERB)	Brien Holden Vision Institute
Dhruv Agrawal	Hasmukh Mansukhlal Shah	Social Empowerment & Economic Development Society (Seeds)	University of New South Wales
<b>Kaithal</b>	Lupin Limited	The Hans Foundation	<b>Thrissur</b>
Lense Home	Mahesh K Thakkar	University Grants Commission	Joyalukkas India Private Ltd
<b>Kolkata</b>	Merlin Saldanha	Usha Kumar Savitri & S L Kumar Sadhbhavana Trust	<b>United Kingdom (UK)</b>
Ajoy Purkayastha	Mission for Vision	<b>Noida</b>	City University of London
Artech International Pvt. Ltd	Nitin Vinzuda	Excel Life Sciences Pvt. Ltd	London School of Hygiene & Tropical Medicine
Bujhta Baba	Novartis Healthcare Pvt. Ltd	Nikhil Dujari	Miriam Hyman Memorial Trust
Krishna Neotia	Parekh Integrated Services Pvt. Ltd	Oracle	Ornate India Project - Moorfields Eye Hospital
Murlidhar Radheshyam	Pharm Aromatic Chemicals		
Nand Gopal Khaitan	PMI Organization Centre Pvt. Ltd		
Radhey Shyam Agarwal	Pushpa Hasmukh Shah Charitable Trust		
	Quinr (Quintile)		

Sight Savers International  
UK Online Giving Foundation  
University of Sheffield  
**United States of America (USA)**  
Ansh Vijay Sachdev  
Combat Blindness International  
Icare Mission Inc.  
Indo-American Eye Care Society  
Jiv Daya Foundation

Seva Foundation  
The Association for Research in Vision  
and Ophthalmology (ARVO)  
United States Agency for International  
Development (USAID)  
Warby Parker  
YourCause  
**Vadodara**  
Caregroup Sight Solution LLP

**Vijayawada**  
Madhavi Latha  
**Visakhapatnam**  
Avinash Pathengay  
G C S Naidu  
I V Raghu Kumar  
Lakshmi Krishnamurthy  
Lotus Wireless Technologies India  
Pvt. Ltd  
Merle Fernandes

Namah Foundation  
R V R Projects Pvt. Ltd  
Synergies Castings Limited  
Vakada Vasudeva Kumar  
Virender Sachdeva  
**Vizianagaram**  
Koneru Murali  
Smt Pothinindi Kanaka Durgamma  
Charitable Trust  
Vasireddi Srinivasa Rao





Partnering for making eye care accessible to all



Wen Giving Foundation, LVPEI and Mission for Vision are partnering together to improve the reach and spread of primary eye care services. The generous contribution from Wen Giving Foundation will enable the establishment of 20 Vision Centres equipped with 24 trained vision technicians in the state of Odisha. Additionally, a residential facility for Allied Ophthalmic Personnel at LVPEI's campus in Bhubaneswar, the Mithu Tulsi Chanrai campus, will also be started with their support.

Since the 1960s the Wen family has been actively engaged in various philanthropic initiatives with the aim to improve and promote the wellbeing and quality of life of those who are less fortunate or disadvantaged. Today, under the guidance of [Mr Chiu Chi Wen](#) and [Mrs Mei Wen](#), the Foundation has been creating far reaching impact through its various health, education and humanitarian projects spanning over 10 countries in Asia. They support, facilitate and implement projects that lead to both immediate and long-term improvements in needy communities.



## Partnering to create a strong work force of eye care personnel and establishing advanced Vision Centres



Standard Chartered Bank as an international bank strives to ensure that the financial services they provide to individuals, businesses and global institutions, improve livelihoods and provide new economic opportunities to people. As a responsible company that invests in communities, they work towards contributing to sustainable economic growth. Their community engagement programs are focused on health, education, employability and entrepreneurship.

As part of their program '[Seeing is Believing](#)' Standard Chartered Bank has partnered with LVPEI to further strengthen the programs implemented by the Institute's Academy for Eye Care Education. The partnership will focus on training thousands of underprivileged people in a variety of eye care jobs and set up 58 digitally progressive Vision Centres.

[Seeing is Believing](#) is the Bank's global flagship community program aimed at preventing avoidable blindness. In India, between 2003 and 2018 they have provided more than 14 million eye care interventions through a network of 125 Vision Centres across 22 states. In 2018, they launched a new project in Northeast India and made a further investment to train and employ 100 underprivileged girls as certified ophthalmic paramedics by 2020. The program embraces and promotes new technological advancements to deliver superior quality service and products.

# Bidding Adieu



Prof. Brijen Gupta  
1928 to 2018

Prof. Brijen Gupta, was one of the Founders of the LVPEI's parental founding organisation in Rochester, New York - the 'Indo-American Eye Care Society' - and he continued serving the Foundation till the very end. He ran it almost single-handedly, ensuring that the funds that were raised were diligently spent towards the right cause.

He used to teach at the University of Chicago, Columbia and the University of Rochester as Professor of History and Politics. A Godfather for many, he was always there to mentor people in their difficult times. An outstanding orator with a booming voice, he was also a speechwriter to American politicians.

In many ways, Prof. Gupta was the Co-Founder of LVPEI and will always be remembered as one of the Institute's biggest well-wisher and supporter.

This year, the LVPEI family lost a few other beloved colleagues:



Sam Balasundaram



Bikash Chandra Mohanta



Bhushan Bagga



Surya Prakash

# Boards of Management

## Hyderabad Eye Institute

### Chairman

Dr Gullapalli N Rao  
*Hyderabad*

### Members

Mr Ramesh Prasad  
*Hyderabad*

Mr B V R Mohan Reddy  
*Hyderabad*

Mr Anil Bhansali  
*Hyderabad*

Prof Ramakrishna Ramaswamy  
*New Delhi*

Prof Nirmal K Ganguly  
*Faridabad*

Mr Rajeev Nannapaneni  
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*Hyderabad*

Mr Sai Prasad  
*Chennai*

Dr Ajit Rangnekar  
*Hyderabad*

Mr Kishore Kothapalli  
*Hyderabad*

## Hyderabad Eye Research Foundation

### Chairman

Dr Vijayalakshmi Ravindranath  
*Bengaluru*

### Secretary / Treasurer

Dr Gullapalli N Rao  
*Hyderabad*

### Members

Prof Uday B Desai  
*Hyderabad*

Dr V Raghunathan  
*Hyderabad*

Prof V S Chauhan  
*New Delhi*

Dr R A Badwe  
*Mumbai*

Mrs G Pratibha Rao  
*Hyderabad*

Prof D Balasubramanian (Ex-Officio)  
*Hyderabad*

Dr S Shivaji (Ex-Officio)  
*Hyderabad*

(As on March 2019)



## Institutes of Excellence

Create Institutes of Excellence in the major areas of eye care that will become global resource centres for the world.

## Primary Eye Care Network

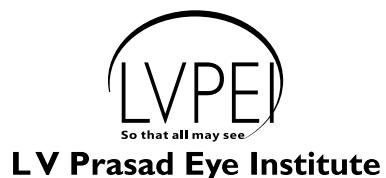
Develop a robust, high-quality Primary Eye Care network for Andhra Pradesh, Telangana and Odisha (150 million population)

## We will continue to work towards

- Realizing the vision of achieving 'Universal Eye Health' by providing high-quality comprehensive eye care encompassing prevention, treatment and rehabilitation
- Providing technical support in the various initiatives launched by the state governments involving large-scale community eye care programs
- Strengthening partnerships at the local, global and intersectoral level to enhance the delivery of care
- Leveraging technology, both for patient care and education
- Developing a more robust primary eye care model closer to the doorsteps of people encouraging community involvement



*View from LVPEI's Visakhapatnam campus*



To find out more about L V Prasad Eye Institute and its programs, services, and facilities, or to find ways to support the institute, please write to us at [communications@lvpei.org](mailto:communications@lvpei.org) or visit [www.lvpei.org](http://www.lvpei.org)

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Hyderabad, Telangana  
+91 040 68102020  
[communications@lvpei.org](mailto:communications@lvpei.org)

Mithu Tulsi Chanrai Campus  
Patia, Bhubaneswar, Odisha  
+91 674 2653001  
[info.bbsr@lvpei.org](mailto:info.bbsr@lvpei.org)

GMR Varalakshmi Campus  
Visakhapatnam, Andhra Pradesh  
+91 891 6714000  
[gmrappointment@lvpei.org](mailto:gmrappointment@lvpei.org)

Kode Venkatadri Chowdary Campus  
Tadigadapa, Vijayawada, Andhra Pradesh  
+91 0866 6712020  
[KVC-appointment@lvpei.org](mailto:KVC-appointment@lvpei.org)