



L&T Technology Services



Spreading **smiles**,  
transforming **lives**





At LTTS, our CSR programmes are planned and executed in a manner that uplifts the underprivileged. We work with passion, dedication and a personal touch.








We follow an approach of holistic social and economic development – preserving and enhancing India's ecological heritage; bringing affordable healthcare to people; securing access to clean water; and harnessing human potential through education and skill development. Even in the wake of the deadly 2<sup>nd</sup> wave of Covid-19 in India, we were able to put together our efforts and respond quickly to the needs of the community without compromising on our existing interventions.

In this report, you will find stories of remarkable transformation and reinvention, of people striving to build better lives for themselves and their communities. We are inspired by their spirit and honored to be able to help them to take a step towards achieving their dreams.







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## ABOUT LTTS

L&T Technology Services Limited (LTTS) is a global leader in Engineering and R&D (ER&D) services. It offers consultancy, design, development and validation & verification services across the product and process development life cycle.

Listed on BSE and NSE, LTTS is a subsidiary of Larsen & Toubro Limited (L&T). As India's No. 1 pure-play engineering and technology services provider, the Company offers services and solutions in the areas of product software, mechanical and manufacturing engineering, embedded systems, engineering analytics and plant engineering. We aim to Engineer a Sustainable Tomorrow through Technology and Innovation.

Our customer base includes 69 Fortune 500 companies and 57 of the world's top ER&D companies, across industrial products, medical devices, transportation, telecom & hi-tech, and the process industries. With 868 patents filed for Global top 100 ER&D spenders, our technologists work round the clock to offer smart solutions and services that can facilitate new product development, aid remote asset management, and enable virtual Product Design & Prototyping.

Our 20,800 employees across the globe propel us towards being the Engineering partner of choice by enabling innovation with world-class technologies, processes, and people, delivering inclusive growth for all stakeholders.





# NeXSens



# FOUNDER CHAIRMAN'S MESSAGE

Dear Stakeholders,

The social responsibilities of your Company are deeply embedded in its strategic vision for the future. We are conscious that there is much that we must do, and continue doing, to help reduce the prevailing disparities in the societies in which we operate. Social obligations become even more critical at times like these, when the world faces a succession of challenges – an unprecedented pandemic, a prolonged war, and their economic repercussions.

Over the years, we have undertaken significant initiatives across a broad spectrum: healthcare, development of social infrastructure, education, skill building, and environmental regeneration. The initiatives undertaken by your Company range from building houses for the cyclone-affected, providing rural health infrastructure, reinvigorating water conservation measures, and focused skill development measures for the youth. All of them have been recognized on leading national forums and platforms for their positive impact on the weaker sections of society.

During the last fiscal, LTTS has continued to expand its healthcare support initiatives, including bolstering rural healthcare, building urban health infrastructure, and providing dedicated support to the vulnerable segments affected by the pandemic. The Company and its employees, true to their technology and engineering heritage, have also contributed generously

to help accelerate advanced research into the causes of the pandemic and seek ways to ensure that the world will never need to go through a similar traumatic period again.

With 46 active projects underway across the country, your Company's CSR team has been instrumental in driving social and environmental regeneration initiatives. These include the distribution and promotion of fuel-efficient boilers in Karnataka, and the planting of over 57,000 saplings in Gujarat, enhancing the sustainability levels of the communities.

The insights gained over the past years, combined with the emerging demands of the present, continue to shape our corporate social responsibility focus. With the active support and involvement of our ever-expanding family of young LTTSites, I am confident that with every passing year, we will further scale up our CSR initiatives, for the well-being of people and a greener future for our planet.

I take this opportunity to thank my colleagues for their commitment in successfully achieving the broad business objectives and the CSR goals of the Group.

Join us in our resolve to strive for a safer, fairer, prosperous, and sustainable future for all.

**A. M. Naik**  
Founder Chairman





**A. M. Naik**

Founder Chairman

# CEO AND MANAGING DIRECTOR'S MESSAGE

In early 2021, LTTS undertook a major exercise involving a redefinition of our outlook through a revitalized Vision, Mission, and Value Statement. The journey is a testament of our deep commitment toward the continued success of our people as we grow as an organization – “engineering a sustainable tomorrow through technology and innovation.”

LTTS' ability to engineer change, leveraging core strengths around technology and innovation, helps us drive environmental stewardship, social development, and economic progress for all our stakeholders. A deep spirit of kinship further complements our activities as we weave a resilient fabric of trust with our customers and employees. This purposeful combination of technology and human-centricity encourages, supports, and promotes a sense of “giving back” to the communities where we work and live.

Corporate Social Responsibility, therefore, continues to be a core focus area for the Company, defining our role as responsible citizens and custodians of a shared future.

## **Delivering Healthcare Support**

The start of the previous fiscal was marked by a rise in the impact of the global pandemic, with its severity and intensity posing a challenge for existing healthcare resources. It was a time to step up and support our compatriots as we worked unitedly towards securing the existence and continuity of the human race.

At LTTS, we upscaled our support engagements and revitalized our focus areas to deliver key initiatives for the benefit

and sustenance of our communities, helping transform and save lives in the process. The activities undertaken during the year did not only make a difference in the lives of the beneficiaries, but were also recognized across noted forums and platforms for their deep positive impact.

LTTS undertook several key initiatives during the year to deliver healthcare support for the wider sections of the society. We dedicated a rural COVID Care Centre (CCC) in Saragur, Mysuru, to serve the over three lakh tribal population of the region. The 19-bed, state-of-the-art centre is equipped with oxygen supply, critical care medical equipment, and all other necessary resources for delivering sustainable healthcare to the local population.

Our CSR team launched a free 24x7 ICU-on-Wheels, an ambulance service in Bengaluru to assist COVID patients in need of immediate medical attention. The ambulance is equipped with medical necessities such as ventilators, cardiac monitors, defibrillators, oxygen cylinders, emergency kit, other critical care life-saving equipment and medication.

A COVID vaccination and awareness drive was undertaken across multiple locations for benefit of the children and our senior citizens. The social benefits from the engagement were enhanced with the distribution of personal safety kits and equipment across 14 vaccination centres in rural Karnataka to help protect our frontline healthcare workers.

LTTS undertook measures to support



## Amit Chadha

CEO and Managing Director

children orphaned during the pandemic. The Company's short-term protected facility with essential amenities also provided a reliable option for those children who were being forced to fend for themselves as their parents ailed from the impact of the virus.

As a technology major, we realize the importance and need for leveraging science and innovation in addressing the challenge posed by the pandemic. LTTS, in association with IISc Bangalore, continues to fund cutting-edge genome sequencing research to minimize the impact of such future scenarios. The scope of the initiative was further enhanced by the active participation of our overseas employees, who contributed voluntarily to the funds raised.

### Transforming Lives

During the year, we revitalized our CSR initiatives leveraging our technology quotient. It helped us to continue and strengthen our ongoing engagements, besides expanding to cover new areas. It gives me great pleasure to be able to tell you that there are 46 active projects being undertaken by our CSR team, a feat that would not have been possible without leveraging technology in our activities.

Digital solutions played a key role here, helping us reach out to hitherto unserved portions of our populace. During the year, the team conducted several long-term online sessions with aspiring engineering students from the economically weaker sections of the society to help prepare them for a career in industry. This was supported by the active participation of our employees, who took out time from their



# CEO AND MANAGING DIRECTOR'S MESSAGE

daily responsibilities to contribute to the future of our youth.

LTTS has tied up with IIT Madras to fabricate and distribute two Homo-SEP robots for cleaning sewer lines and septic tanks. This would alleviate the status of our sewage works, helping drive an imminent end to the ills of manual scavenging.

The LTTS-IIT Madras partnership is also focusing on developing and demonstrating a grid-independent "Green-office" with solar panels, lithium ion batteries, water electrolyzers, zinc air batteries, and carbon dioxide recycling stations. The solar energy captured through the panels is stored in the cutting-edge zinc air batteries, which can then be leveraged for driving in-campus mobility through small vehicles. The metal-air batteries are nearly three times cheaper even at the scale at which they are being developed, and are expected to reduce the current import reliance on expensive raw materials as zinc is available widely in India.

As part of our commitment towards using clean energy for a sustainable future, LTTS distributed 1470 fuel efficient boilers to communities dwelling around the Bandipur National Park in Karnataka. These boilers help reduce firewood usage by 85%, driving a 75% reduction in the total household hours spent in boiling water. Each boiler, thus, minimizes household carbon emissions by 2 tonnes per annum, totalling nearly 3,000 tons of carbon savings per year.

Our CSR teams have planted 57,054 saplings of 94 indigenous varieties in Gujarat. The saplings, on attaining maturity, have the potential of sequestering 1500 tonnes of carbon per annum. LTTS is also supporting the revival of two lakes in Bengaluru as part of its commitment towards regenerating the ecosystem.

Any societal transformation efforts would be incomplete without the participation of the youth of the country in an inclusive and holistic manner. Our flagship skill development programme 'Naya Savera', enables the

youth, especially in remote and rural regions, to combat social exclusion and poverty. Through vocational training and skill development classes, 'Naya Savera' has been providing sustainable livelihood to thousands of disenfranchised people.

## Accolades and Recognitions

Our efforts to transform lives have been recognized by several leading bodies and forums, with LTTS winning several awards at these platforms. These include the Best in Health (CSR) Award from ASSOCHAM and recognitions from the CSR Journal and the Institute of Directors.

The coveted Golden Peacock Award for Corporate Social Responsibility 2021, is yet another reaffirmation of the significantly positive impact that LTTS has had on the society at large.

LTTS also won the Gold in BW Businessworld Recycle: Recycling for a Greener Tomorrow Awards for its Solid Waste Management programme, underscoring an organisation-wide commitment to drive a greener, cleaner, prosperous, and responsible tomorrow.

## Towards Our Common Future

We are in the process of reimagining our programmes as being more focused on operational locations. Besides helping drive the economy of these regions, the move will also help our technologists in these hubs to contribute even more effectively to the development and wellbeing of their communities.

LTTS is also choosing projects with a greater emphasis on sustenance and sustainability so that we can drive long term-purpose and inclusiveness in growth paradigms.

I remain confident that technology and innovation will continue to be a great enabler as we move towards our common future, together.

**Amit Chadha**

CEO and Managing Director

## DIRECTORS' MESSAGES

### Sudip Banerjee

Independent Director and Chairman of the CSR Committee



LTTS's Corporate Social Responsibility programme has always had a very multi-dimensional focus. By introducing interventions in critical problem areas, our programme tries to catalyse social change at the system level. The Covid-19 pandemic, however, caught the world by surprise, causing immense hardship for individuals and organisations alike. Like everyone, we adapted to the new normal and our CSR programme was no different.

#### **Covid-19 prevent & relieve strategy**

When India was battling the deadly second wave, we stepped in to support the community by leveraging our two-pronged approach to *prevent and relieve*. All the interventions we introduced were either to prevent the further spread of the virus or to relieve those already affected by it. Whether it was the construction of makeshift hospital, installing an oxygen plant, supporting children orphaned by the virus, or conducting mass vaccination drives and supporting advanced genome sequencing study of the viral variants, the support provided was timely and met the utter need.

To aid the overworked healthcare system, we also launched two 24x7 ambulances equipped with oxygen and ICU support that ferried Covid-affected patients from their homes to hospitals free of cost. These ambulances equipped with needful medical equipment including ventilators ensured that patients were not deprived of critical care while being transported from their home to a medical facility.

#### **Through the lens of sustainability**

Now that life has begun to resemble that before the pandemic, it is more important than ever to direct our efforts on the upcoming long-term challenges. Climate emergency is at the top of the list. To improve our environmental performance and reduce carbon emissions, we have facilitated many measures. To create long-term value for our planet and our stakeholders, we prioritize sustainability in all our endeavours.

The fight against climate change necessitates that communities utilise energy more efficiently and our clean energy projects have been devised on this principle. We have helped light up some isolated tribal hamlets of Karnataka by use of solar panels. We handed out fuel-efficient boilers to fringe villagers to lessen their reliance on firewood. We have initiated revival of urban lakes and planted saplings to re-establish their respective ecosystems. In addition, we are supporting "eco schools" that promote experiential learning about the environment. Last, but not the least, we also supported IIT Madras in the construction of a grid-independent corridor, run on solar power.

Through interventions like these, we reaffirm our commitment to support the underserved sections of the society and take measures towards a cleaner and greener planet. As the pandemic becomes an event of the past, we hope to move forward, delivering our best results in bringing about sustainable development.

## DIRECTORS' MESSAGES

### Dr Keshab Panda

Non-Executive Director and CSR Committee Member



As the human civilization has grown, rampant development activities have had detrimental consequences on the environment, the effects of which we are beginning to feel now. However, the advancement of technology promises measures that can help offset the damage already caused.

At LTTS, our goal is to contribute towards a more sustainable world. We are doing this by leveraging our deep engineering DNA and innovation-led mindset to help stakeholders solve various social and environmental concerns. A continued commitment to sustained R&D in innovative engineering products and solutions further underscores our commitment to a greener, cleaner, and better world.

#### **Engineering Excellence to aid People affected by Natural calamity**

From 2019 to 2021, we facilitated construction of disaster-resistant homes in Puri for 150 disadvantaged families devastated by Cyclone Fani. Nothing is more devastating than losing one's home to a natural calamity, and we channelled this acute emotion into the project. To protect families from future disasters, we gave highest priority to the construction of disaster-resistant homes that can endure the brunt of the calamity. The team acquired windspeed data from the Meteorological Department for the last 60 years of cyclones and incorporated the learnings into designing the houses- an effort that makes the structures robust and enduring.

#### **Leveraging technology to eliminate manual scavenging**

Despite legislative attempts, India still has a sizable number of manual scavengers. Though the law prohibits this practice, it continues unabated due to the unavailability of an alternate solution. Manual scavengers remain undocumented, underpaid, and exploited and we felt it was an important problem to address. In a collaboration with IIT Madras, we are field-testing solutions for robotised homogenisation/cleaning (HomoSEP) in septic tanks and inspection in sewer lines. These robots are being developed to obliterate the practise of manual scavenging from the country.

#### **Funding infrastructure for Research**

Proper infrastructure is imperative for higher education. It gives me immense pleasure to inform you that through our CSR funds, we have sponsored state-of-the-art equipment for a Deep Learning Lab and a Separations Lab in the Centre for Sustainable Technologies at the Indian Institute of Science, Bangalore. This equipment will greatly benefit the students researching at the institution.

Integrating technology with CSR is one of our key objectives. We believe, improved technology can help us solve critical environmental and social problems including the climate crisis. As we move forward in our journey, we will continue to identify and support communities with the greatest need for assistance and include them in our programmes. In the coming days, we hope to respond with all our passion, zeal, and dedication to serve the people of our nation in their time of need.



## DIRECTORS' MESSAGES

### R Chandrasekaran

Independent Director and CSR Committee Member



"Education is the kindling of a flame, not the filling of a vessel," Plutarch famously observed. Providing its people with a high-quality education is one of the most important concerns India seeks to address as it advances along the path to prosperity for all. Through its core theme of Education, LTTS has developed interventions to address issues such as a high student-to-teacher ratio, a lack of adequate infrastructure, and insufficient levels of teacher training. Despite the challenges posed by the pandemic, we were able to remodel our programmes, to ensure that children do not lose touch with education.

#### Containing the Covid-19 induced learning crisis

In March 2020, the COVID-19 pandemic brought learning to a screeching halt worldwide, creating the most severe global education disruption in history. While the world realised the need to secure education for our students remotely, the shift from traditional to digital learning wasn't possible overnight. Despite educational institutions across the country doing their best to address this gap and provide e-learning support, the number of affected learners continues to rise. That is why, this past year, our education-related interventions have mainly been focused on containing the Covid-19 induced learning crisis.

We benefitted students through digital education, infrastructural support, and exposure to practical learning alongside dealing with the pandemic's aftermath. This year alone, our educational interventions have benefitted around 12000 students and 200 teachers directly. Around 2900+ teaching hours were devoted exclusively towards imparting lessons in

various subjects. It gives me a sense of pride to share with you that students from the schools supported by LTTS in Karnataka have performed exceptionally well in their class 10 Board Examination last year. The average pass percentage from the supported schools was 90.71% as compared to the state-wide pass percentage of 85%. Additionally, Social Emotional Learning Indicators have hinted at a 20% rise in learning levels in children from LTTS's digital education programme, as compared to FY21.

#### Accelerating the return to normal

During the lockdown, young India was out of schools and education pivoted to digital. However, a virtual classroom learning is no match for the holistic education that a physical classroom provides. Cognizant of this, to accelerate the 'return to normal' and 'return-to-class' process, we organised vaccination drives for people with disabilities and for children between the ages of 12 and 15.

Around 10800 people have been vaccinated through our drives. The target groups were chosen based on the degree of their vulnerability to the virus. The initiative did not stop at just inoculation of the doses. The communities were sensitized on need of the vaccination as well.

As we gradually step into a post-pandemic world, uplifting lesser privileged sections of the society becomes even more important. While LTTS grows as an organisation, it hopes to amplify support to the society by virtue of its CSR programmes. After all, business growth is not isolated from societal development.

## DIRECTORS' MESSAGES

### Abhishek Sinha

Chief Operating Officer & Whole Time Director



"The core philosophy of LTTS is "Engineering the Change" which unequivocally manifests itself into not just profits for our investors and employees but towards the welfare of society as well. Our Corporate Social Responsibility (CSR) activities have always been at the forefront in contributing to the society.

Our undying efforts in mitigating the aftermath of the perilous COVID-19 virus persist this year as well, whether it may be setting up of makeshift beds in Mysore, installing oxygen plant in Chennai or even lesser addressed issues such as supporting children who have been orphaned due to the rogue virus. With research & innovation being buzzwords in our industry, we extended its impact on the lesser privileged in the space of practical education by imparting digital learning, maintaining mini-science labs and mobile science labs, providing infrastructure support and setting up community libraries among other various initiatives. Major stress was put on skill development with strong focus on women from marginalized backgrounds and people with disabilities. They were equipped with knowledge on entrepreneurship, language, sustainable agricultural

practices, and software. On the Environment front, our efforts are strongly validated by eco-restoration of Huvinayakanahalli Lake in Bangalore, sapling plantations in Gujarat and distribution of fuel-efficient boilers to underserved communities in Protected areas of Karnataka among so many others.

A special mention to the Corporate Volunteering Programme (CVP) is in order, by which LTTS employees volunteered in CSR activities such as teaching, career guidance and pledging eyes during our "Eye Donation Drive" campaign. I can positively and proudly say that our CSR interventions - which have more than doubled in last one year - have made a difference to the society around us.

I heartfully congratulate and thank the ever so inspired CSR Team of LTTS. There is not an iota of doubt in my mind that LTTS will touch many more lives with its initiatives in the future and our team will keep contributing towards making the world a more liveable space as LTTS continues to #EngineerTheChange."

## CSR HEAD'S MESSAGE

### K N Prabhakaran

Head, CSR



LTTS has always been a purpose-driven organisation. As with everything else we do, our CSR programme has a core purpose, which is to create visible and systemic impact that benefits the most marginalized, disadvantaged, and vulnerable sections of our society. For us, CSR is an enabler to work along with other stake holders and supplement their efforts in strengthening the society which is in need. Each one of us at LTTS views CSR as an opportunity to make a difference and to extend our support, wherever possible, to help our nation achieve its true potential.

The continuing Covid-19 pandemic created immense upheavals across all sections of society and as always, it was the weakest sections that felt the pain and distress most acutely. As an organization our greatest satisfaction came from our targeted efforts to help alleviate the challenges brought on by the pandemic. Across all our projects, which include running a makeshift hospital, free 24x7 ICU on Wheels to ferry Covid affected patients from their homes to the hospitals, shelter support for children

whose parents were affected by Covid, infrastructural support for uninterrupted e-learning for students and supporting research on the genome sequencing of various Covid-19 mutants to aid the development of more effective vaccines – we pulled out all the stops to help those in need to get back on their feet.

Additionally, to amplify the impact of our strategic interventions in the areas of environment, health, education, water, and skill development, we successfully executed many CSR projects, despite the challenges posed by the pandemic. FY 22 also marked our emphasis and commitment towards sustainability, where we undertook several interventions towards bettering the health of our planet.

We will continue our journey to use our core strengths – technology, innovation, and a problem-solving approach – to further the impact through our interventions in the years to come.



## OUR CSR PHILOSOPHY

# Holistic Development

LTTS nurtures a culture of caring, trust and continuous learning while catering to the needs of all stakeholders and the society at large. The Company contributes towards holistic growth by empowering communities and catalysing sustainable development. Our CSR philosophy centres on implementing transformational projects to create value for our communities. We undertake projects along along the six key pillars of:

- **Environment**
- **Water**
- **Health**
- **Education**
- **Skill Development**
- **Sports for the Disabled**



## OUR CSR PHILOSOPHY

# For the Communities

LTTS through its CSR programmes, pledges to work towards the betterment of the communities and the environment. We aim to integrate our technological expertise with a committed workforce to create a visible impact on society. Our objectives chiefly cater to:



**Building a sustainable social model through implementing comprehensive CSR programmes**



**Revising systems and processes to achieve measurable results**



**Devising solutions to social issues by harnessing technological interventions**



**Working closely with implementation partners to promote welfare in the areas of environment, water, health, education, skill development and sports for the disabled**

## OUR CSR PROCESS

# Pursuing nation-building

Caring for the underserved has been in our DNA since inception. Our CSR programmes have been designed to help the poorest of the poor and the neediest of the needy and we shall continue our efforts towards building a cleaner, greener, and more inclusive society.

Our CSR policy framework details the mechanism for undertaking various programmes in accordance with Section 135 of the Companies Act 2013 and the Companies (Corporate Social Responsibility Policy) Rules, 2014.

### CSR Programme Implementation

Our CSR initiatives broadly address six key areas of environment, water, health, education, skill development and sports for the disabled. This is done either directly as programmes/projects/activities, or through a Registered Trust, or by contributing to the CSR team of the holding company. LTTS also collaborates with the government, business partners, and communities to amplify the impact of its social initiatives. The duration of a particular initiative depends on its nature, extent of coverage and intended impact.

LTTS also undertakes project review assessments as and when required. We may use the services of employee volunteers, internal teams, consultancy firms and expert agencies for baseline surveys, impact assessment surveys and guidance on programme design and implementation.

### CSR Monitoring and Reporting

LTTS has a structured mechanism to monitor and report the CSR activities at various locations. The CSR team monitors, tracks, and evaluates the progress of each programme by:



**Reviewing CSR project proposals, evaluating their utility and efficacy, and suggesting suitable changes in line with the CSR policy**



**Verifying and establishing the credibility of CSR partner agencies through which the CSR project is to be executed**



**Ensuring compliance of the rules/regulations/ laws by the partnering agency**



**Ensuring the partnering agency submits periodic reports on operational and financial status of the project**



**Monitoring the programme progress closely and maintaining an accurate database**



**Conducting mid-course reviews and suggesting modifications, if needed**



## CSR INITIATIVES AT LTTS

# Transforming lives

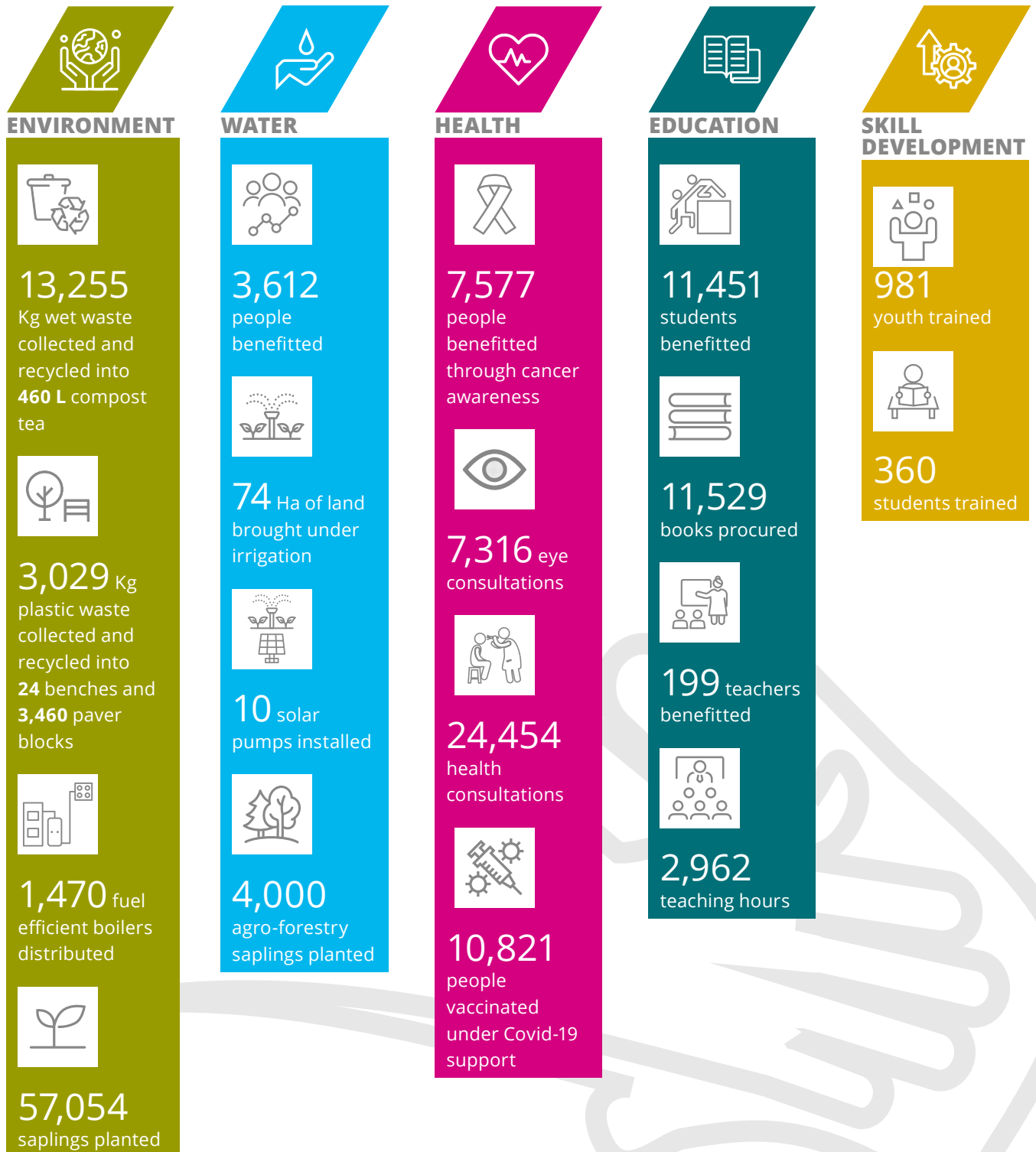
LTTS is also committed to help build a sustainable world by designing and aligning its operations in accordance with global sustainability standards. The Company leverages its deep engineering DNA and innovation-mindset to help customers expand the use of renewable energy, drive water conservation measures, reduce carbon emissions, and develop Net Zero products.

Our CSR activities have always been focused on addressing the problems faced by the people of the nation, especially those in underprivileged areas that have no or limited access to basic needs such as health, education, water, electricity, and employment. Our areas of work include:

- **Environment** – Creating a positive impact on the environment through recycling, greening and ecosystem conservation initiatives.
- **Water** – Undertaking comprehensive water conservation projects for integrated development of remote villages.
- **Health** – Providing preventive and reactive relief to Covid-19 affected communities, geriatric care, comprehensive eyecare, cancer awareness and leveraging technology to combat manual scavenging.
- **Education** – Providing digital learning, establishing community libraries and teachers' learning centre and maintaining mini science labs
- **Skill Development** – Empowering today's youth including youth with disabilities with various vocational and entrepreneurship skills
- **Sports for Disabled** – Encouraging specially-abled people through Wheelchair Tennis Tournament



# CSR Impact Numbers





# ENVIRONMENT

A healthy environment is one of the key essentials for the progress of humankind. We recognise that our planet's delicate ecological balance is threatened by the combined effects of pollution, deforestation and the wanton disposal of garbage and effluents. These problems in turn, are affecting the quality of life and exacerbating the effects of climate change on our communities. Since 1880, the global mean surface temperature has risen by 1.01°C. The mean sea level has gone up by 4 inches since January 1993. There is unequivocal evidence that the earth is warming at an unprecedented rate and human activity is the principal cause. As time runs out, it becomes increasingly important for every organization to pitch in and contribute towards environmental initiatives.

At LTTS, we are working towards paving the way for a sustainable world for our future generations. We are bringing together different stakeholders like development agencies, public bodies, and local communities in the projects that we carry out. We strive to ensure that local communities are made aware of environmental issues and equipped to handle projects after we have completed them. In this way, we make them partners and equal stakeholders in our quest to preserve the environment.

This year, our Environmental projects covered the following interventions broadly:

- **Restoration of public spaces** – transforming public spaces for the benefit of residents and commuters
- **Ecological renewal** – rebuilding ecosystems
- **Clean and renewable energy** – promoting energy-efficiency and powering the switch to renewables
- **Rural development**
- **Solid waste management** – promoting awareness of waste segregation & management and creating value out of collected waste







## RESTORATION OF PUBLIC SPACES

### Beautifying a median in Navi Mumbai



MEDIAN MAINTAINED

6.5 km

IMPLEMENTATION  
PARTNER

**Meta Design**

The 6.5 Km arterial road connecting Koparkhairane Railway Station with Rabale Police Station leads to Mindspace Airoli, which is a major IT hub in Navi Mumbai. The road sees heavy use by officegoers working at Mindspace, as well as by goods carriers and commercial vehicles. Enhancing the median would help improve the commuting experience for all these users.

We carried out the initiative of beautifying this median through our implementation partner **Meta Design**. The saplings planted were tended with basic watering, cutting, and trimming. Fallen leaves were dumped into the earthen pits to improve cleanliness in the median's vicinity. The entire median continues to be washed and cleaned at regular intervals and the paint and signage is touched up each quarter.

The median is now green and immaculately maintained, enhancing the experience of residents and commuters. The repainting of sign boards has ensured that signage is clearly visible to both vehicles and pedestrians. Community plantation and painting drives have helped instil a sense of environmental awareness and ownership among the locals.

### Reviving a public space



AREA MAINTAINED

35,000 sq. ft.

PROJECT PARTNER

**India Rising Trust**

Veeranapalya Flyover is a critical junction near the vast Embassy Manyata Tech Park in Bengaluru. It is used by thousands of people every day. But till a few years ago, it was neglected and prone to garbage dumping.

The area was restored under the Adopt-a-Flyover initiative of Bruhat Bengaluru Mahanagara Palike (BBMP), through our project partner **India Rising Trust**. The once unclean place now features three dynamic animal sculptures of a tiger, elephant, and bison – the state's main megafauna. This year, the project continued with repair and upgradation of the previous installations in the tiger and elephant sections. A new section dedicated to the bison was unveiled as an extension of the wildlife





## ECOLOGICAL RENEWAL

### Restoring a major lake



theme, with two life-size MS sheet models of bison, under a tree canopy made of upcycled bicycle rims and recycled packing crate wood.

Today, the under-flyover area is a safe, high-quality public space. Over 35,000 sq. ft. have been renovated, and it is an emerging venue for cultural events and a popular selfie spot. It even served as a safe outdoor space for COVID-19 relief material distribution. The project has drawn support from local shop-owners, sparking a sense of community ownership.



AREA OF LAKE RESTORED

36 acres

PROJECT PARTNER

**United Way of  
Bengaluru**

Bidruguppe Chikka Kere, a 36-acre lake near Bengaluru had long been dry and dilapidated. Silt accumulation and decreasing sand had reduced its water holding capacity. There were no demarcated boundary and people would dump domestic waste and sewage, blocking water inlets and outlets. As a result of these activities, the lake hadn't been full in the last 28 years.

In collaboration with **United Way of Bengaluru**, we undertook an initiative to restore the degraded lake. A biodiversity baseline assessment study, along with groundwater measurement and soil/water quality testing was carried out. A cantor study was conducted to determine the quantity of soil to be excavated, followed by a station study to understand the inflow and outflow of the lake to mark the full tank level.

Every stage of the project saw support of the government authorities and the involvement of the local community. To encourage community ownership, multiple panchayat meetings were arranged.

The cleaning of the lakebed is now complete, with all debris and solid waste removed. Boundary clearance work is underway, along with lake desilting and inlet cleaning work. The restoration work will be completed in the next two years, after which a healthy lake ecosystem will thrive amid the city.



## ECOLOGICAL RENEWAL

### Reviving a lake ecosystem



LAKE AREA RESTORED

45 acres

EXECUTOR  
Eco-Watch

Over the years, Huvinayakanahalli lake in North Bengaluru had become polluted by the effluents released into it. Encroachment of drains, over-exploitation of groundwater resources and hydrological alterations had severely harmed its ecosystem and affected its biodiversity.

Reviving the lake thus became one of our key objectives. Our on-the ground executor **Eco-Watch** began the work soon after. This year, the activities mainly involved desilting the catchment area of the lake, improving the water holding capacity and planting native saplings around the waterbody. Additionally, several sensitization

workshops were carried out to keep the local community apprised of the importance of the ecosystem.

This restoration work is set to continue over the course of the next year. Within the next few years, we can expect a fully functional lake ecosystem.

### Green office

Supporting renewable energy powered by technology can take us towards solving the climate crisis. We supported the construction of a new 'green office' on the **IIT Madras** campus, to demonstrate the potential of indigenous zinc-air batteries. Located in the institute's Chemical Engineering Laboratory, the office is equipped with solar panels, lithium-ion batteries, water electrolyzers, zinc-air batteries, and carbon dioxide recycling stations. The aim is to make low-cost and safe metal-air battery systems based on zinc.

Solar-powered  
green office built  
to demonstrate  
indigenous zinc metal-  
air battery systems

The solar energy captured through the panels will be stored in these batteries, which can then be used in small electric vehicles. These metal-air batteries are nearly three times cheaper even at the scale at which they are being developed and will reduce reliance on expensive raw material imports as zinc is widely available in India. Compared to existing lithium-ion batteries, the zinc-air batteries have a longer shelf life, more range and better safety. We hope this new office will raise awareness of the potential of electric mobility and kickstart the stationary battery storage ecosystem in India.





## ECOLOGICAL RENEWAL

### Green cover initiative



Increasing the green cover is one of the best ways to fight Climate change.

A Miyawaki Forest is being created in Valsad district in Gujarat under one of our interventions. Pioneered by the Japanese botanist Akira Miyawaki, the Miyawaki method involves planting dozens of native species in the same area to build dense native forests. It ensures 10x faster plant growth and a 30x denser plantation.

Our partner **Enviro Creators Foundation** has now

planted 57,054 saplings of 94 varieties, all of which have survived. The residents have also learned more about the environment from this activity and started applying some of the measures on their own land.

The project is set to become maintenance-free in three years – but till then, our maintenance work continues at the site, including watering, de-weeding, bamboo support, irrigation system maintenance and security. On attaining maturity, the trees are expected to sequester around 1,500 tons of carbon each year.



## CLEAN AND RENEWABLE ENERGY

### Promoting eco schools



In July 2022, India's share of renewable energy capacity came to 162 GW, which is 41% of the 402 GW of electricity installed. To supplement the Government's efforts, through our implementation partner **ARCH Development Foundation**, we promoted the use of renewable energy in 8 government-aided schools in Gujarat, by installing 6 KW solar panels. Such 'eco schools' encourage experiential learning about the environment, within and beyond the classroom. They give students the knowledge, skills, and motivation to address the environmental challenges around them.

STUDENTS BENEFITTED

10,723

STUDENTS INVOLVED IN ECO EVENTS

1,336

TEACHERS INVOLVED IN ECO EVENTS

243

NO OF SCHOOLS IN WHICH 6 KW SOLAR PANELS WERE INSTALLED

8

IMPLEMENTATION PARTNER

**ARCH Development Foundation**



The solar panels now provide a reliable power supply in schools which benefits around 10,000 students. Eco Clubs have been established in these schools through this project to raise awareness about environmental issues.





## CLEAN AND RENEWABLE ENERGY

### Switching to fuel-efficient boilers

Burning of firewood releases massive amounts of carbon dioxide into the air. For remote village communities, firewood unfortunately becomes the principal source of fuel. Firewood is an inefficient fuel and depletes forest cover as countless branches of healthy trees are cut off. Women face hours of drudgery each day in collecting wood, as well as in cooking and heating with inefficient methods. These traditional methods also generate significant carbon emissions. Women risk attack by wild animals when out collecting wood and suffer smoke-related health hazards when burning it at home.

Our partner **Junglescapes Charitable Trust** distributed 1,470 boilers under this project. These boilers reduce firewood usage by 85%, with a 75% reduction in household hours spent boiling water. Each boiler thus reduces carbon emissions by 2 tons per annum, amounting to a total saving of nearly 3,000 tons of carbon emissions per annum. The reduction in firewood usage has lowered women's exposure to smoke hazards and respiratory ailments. It has also saved them hours of drudgery each day collecting wood, besides reducing the risk of wildlife interaction.



BOILERS DISTRIBUTED

1,470

CARBON REDUCTION

~3,000  
TONS PER ANNUM

PARTNER

**Junglescapes  
Charitable Trust**





## ECOLOGICAL RENEWAL

### Lighting up remote tribal hamlets

The remote tribal villages of Kanthana Haadi, Vaderahalli Haadi and Chikkabaragi Haadi in Karnataka once faced frequent power cuts and intermittent voltage fluctuations. They were dimly lit at night and vulnerable to wildlife intrusion, being on the fringes of the forest. The lack of reliable electricity meant that life slowed considerably after sundown.

Through our partnership with **Swami Vivekananda Youth Movement (SVYM)**, we facilitated maintenance of solar lights in all 28 houses of Kanthana Haadi, as well as in the streets and livelihood units.

92 people living in this hamlet have benefited from this initiative. A handloom-based livelihood unit was established, and local tribal women were trained to encourage group entrepreneurship.

In Vaderahalli Haadi and Chikkabaragi Haadi, we supported maintenance of solar lights in all 33 houses, as well as the streets and the Community Hall. Regular



refresher trainings are conducted to guide residents on the upkeep of these solar installations. They were involved in the entire planning, design, implementation and monitoring of this project to encourage ownership

These initiatives have benefited 104 people in the hamlets. Village committees will gradually take over the solar assets and maintain them, guided by monthly community meetings, and funded by a modest subscription from each household.







## RURAL DEVELOPMENT

### Bringing about sustainable rural development

Belgaon, Athwad and Paregaon Khurd villages of Ahmednagar, Maharashtra depend primarily on agriculture and livestock rearing, which have been dogged by poor yields and high input costs. In collaboration with **Vanarai**, our efforts have focused on livestock and dairy development in Paregaon; a community RO plant and vertical kitchen gardens for water and nutrition security in Athwad; and construction of toilets and sanitation facilities for BPL beneficiaries in Belgaon.

#### Livestock and dairy - cattle health and productivity

Many villagers in Paregaon depend on livestock rearing as agriculture alone cannot provide a sustainable livelihood for them. But they were held back by a lack of proper feed resources and insufficient animal nutrition. Poor health management and unhygienic rearing methods had led to disease and affected milk quality and quantity.



Our interventions began with fodder development to improve cattle health, increase milk productivity, and provide sufficient digestive nutrients. These efforts have helped enhance the livelihoods of 87 farmers and improved the conditions of local livestock.

#### WASH initiatives - reducing waterborne illness

Poor sanitation and lack of drinking water was causing waterborne diseases in the area. Open defecation



PEOPLE BENEFITED  
THROUGH  
LIVESTOCK & DAIRY  
INTERVENTIONS

87

PEOPLE BENEFITED  
THROUGH WASH  
ACTIVITIES

130

KITCHEN GARDENS  
CREATED

50

PARTNER  
Vanarai

remained an enduring problem. We helped construct 30 toilets for BPL families in Belgaon, and installed soak pits and sanitation channels to improve hygiene. We also set up a community RO plant in Athwad to provide drinking water for 100 beneficiaries, with zero wastage.

#### Kitchen gardens - self-sufficiency and household nutrition

Many farmers in the area lived hand-to-mouth, with their earnings largely spent on feeding their families. Moreover, the cramped confines of their houses allowed little space to grow food for themselves. This affected their diet and nutrition, and they ended up buying vegetables from the market, spending a lot of money.

The project introduced vertical gardens in Athwad to sidestep space constraints and provide food for family consumption. These kitchen gardens are already supporting over 50 families in the village, helping them grow their own vegetables, saving each family around Rs 500 per month. For these farmers, every penny saved is a penny earned.

**A total of 267 people benefitted through this initiative.**



## SOLID WASTE MANAGEMENT

### Transforming household waste management in Vadodara

As the cities expanded, plastic and packaging material was dumped in the surrounding villages of Manjusar and Kunpad near Vadodara in Gujarat. There was no organised waste collection at the doorstep. Instead, waste was picked up from yards and dumped at illegal sites, where it would accumulate and contaminate local water bodies and soil, releasing toxic leachate that blocked soil pores. Even where waste was collected, there was no way to transfer it properly for safe disposal and recycling.

This intervention executed by our implementation partner **Kachare Se Azadi** involves, awareness creation about waste segregation, collection of waste on time, creating value from waste and disposing of non-recyclable waste in a responsible manner. This project created value from the recyclable waste by turning them into benches, bricks and paver blocks for use.

WET WASTE COLLECTED  
13,255 kg

DRY WASTE COLLECTED  
4,058 kg

PLASTIC WASTE COLLECTED  
3,029 kg

BENCHES MADE  
24

PAVER BLOCKS MADE  
3,460

IMPLEMENTATION PARTNER  
**Kachare Se Azadi**



Door-to-door waste collection has ensured that waste is cleared regularly and not dumped on street corners or in water bodies. Instead, the collected waste goes to legal

sites for safe disposal. Locals are now more aware of the importance of hygiene and segregation, with 1500+ households reached by our awareness programmes. Wherever possible, waste is being put to practical use instead of being thrown away into landfills. This plastic waste was then recycled into 24 benches and 3460 paver blocks.





## CASE STUDY 1

# A boiler for Gopamma's family

Gopamma lives in Maguvinahalli Aadi, a tribal village close to the entrance to Bandipur National Park. She is a Jenu Kuruba, a member of an indigenous community which has lived inside the forest since well before the national park was formed. The Jenu Kuruba are known to be expert honey collectors (the Kannada word for honey is Jenu, which is how the community gets its name).

Gopamma lives with her husband, Bomma, three daughters and two sons. Bomma works on forest restoration work as part of the **Maguvinahalli Kaadu Samrakshane Self-Help Group**. Gopamma and her children work as casual farm labourers on nearby farms, working for part of the year, mainly during harvesting season. One of her daughters helps in grazing the sheep owned by the family.

The family has been using the boiler provided under the **LTTS-Junglescapes** project for the past six months. Before this, they were boiling bathing water on an open vessel placed on three stones. Gopamma says the hot water helps them get a lot of relief from the weariness of working in the fields the whole day. She has even added a small innovation of fitting an extra outlet pipe (see picture) so that the collection vessel is placed slightly away from the boiler.

Gopamma is very happy with the boiler – she says it has saved her family a lot of time and effort previously spent collecting firewood as the boiler works well on locally available



small twigs. It can heat up to 40 litres (their daily need) very quickly. She is also happy that there is no smoke from the boiler, and that it is portable, which means they can shift it indoors during the monsoon.

Above: **Gopamma using the boiler**

Inset: **Gopamma (third from left) with her family members**



## CASE STUDY 2

# A new life and livelihood for Mariah

Mariah lives in the village of Melkamanahalli Aadi, a small tribal hamlet on the edge of Bandipur Tiger Reserve. He is also a Jenu Kuruba and lives with his wife, son, daughter, and mother in a small house in the village. His wife Manjula works as a casual farm labourer on nearby farms, while his mother-in-law tends to the few goats and sheep owned by the family.



Mariah himself is a member of the local self-help group formed for forest conservation, which works towards removing invasive species like lantana in the forest and bringing back native vegetation. This activity is supported by **LTTS** and **Junglescapes** and brings him sustained livelihood throughout the year. Mariah hopes to utilise these earnings to improve his house and buy some simple furniture. He is also an expert honey collector. His forefathers lived inside the forest before the national park was formed and used to be hunter-gatherers, mainly specialising in collecting honey. He has deep knowledge of the various species of bees in the forest and their foraging and nesting habits. The traditional ecological knowledge of his community is precious for conserving plants and bees.

Mariah's family has been using the water heating boiler provided under the LTTS-Junglescapes project regularly for the last five months. They use the boiler twice a



week to heat bathing water. Before the boiler, they also adopted the traditional method of heating water in a vessel placed on stones. His family is delighted with the boiler as it works well with much less firewood and heats water quicker. He mainly uses twigs of lantana

and other small shrubs like Angarrikai, which are available close to the village. As his work involves removing lantana, he brings back some dried lantana sticks in the evening while returning home. The frugal technology of the boiler thus fits perfectly into his lifestyle.

**Mariah's wife Manjula uses the boiler**

**Inset above: Mariah with his family**

**Inset left: Mariah removing Lantana in the forest – an activity supported by LTTS**







# WATER

Water touches every aspect of human life, and water resources can have a significant multiplier effect on communities. They influence local health, the residents' quality of life and the success of an agrarian economy. Although India supports about 16% of the world's population and 15% of livestock, only 4% of the global water resources are available to us. Most importantly, of the 4,000 m<sup>3</sup> of precipitation available in a year, almost 3,000 m<sup>3</sup> comes as rainfall in a short period of three months during monsoon. Thus, it becomes more important to use water resources judiciously and harvest water as much as possible.

We have designed integrated watershed management projects in water-starved rural areas. Our keen focus has been on reviving water systems, promoting sustainable agricultural practices and empowering the local communities with trainings and awareness sessions. We have promoted innovative and sustainable irrigation; aided construction of water harvesting structures; and facilitated drinking water availability to marginalised communities. These measures have helped increase agricultural productivity, raise groundwater levels, enhanced green cover and diversified livelihoods.

In the Financial year that ended on 31<sup>st</sup> March 2022, we catered to the following interventions through the Water domain.

## ■ Integrated watershed management

## ■ Enhancing agricultural productivity





## INTEGRATED WATERSHED MANAGEMENT

### Rejuvenating communities



PEOPLE  
BENEFITTED

355

PARTNER  
**National  
Agro  
Foundation**

Local water resources that support agricultural livelihoods in Puthur, Thottikuppam, Poongunam and Muthuvinayaga villages of Chengalpattu district in Tamil Nadu, were ravaged by water scarcity. Severe soil erosion and high surface runoff had affected soil health and decimated agricultural productivity, causing severe plight to the farmers and the local community.

We partnered with **National Agro Foundation** to devise a project that would aid water resource management along

with promotion of sustainable agriculture and revival of communities. This year, the work mostly centred around training the local community members along with construction of a few water harvesting structures.



The interventions of this project will continue in the next financial year as well, where our focus will be mainly directed towards water resource management and promoting sustainable agricultural practices. We hope within a few years, our target villages can serve as a model for future watershed management projects.



# INTEGRATED WATERSHED MANAGEMENT

## Holistic watershed programme



NO OF PEOPLE  
BENEFITTED  
**1,256**  
PARTNER  
**National  
Agro  
Foundation**

The uneven terrain in the area surrounding the villages of Puriyambakkam, Pazhavur and Perukaranai in Chengalpattu district of Tamil Nadu, causes heavy surface run-off, which makes recharging water tables difficult.

Additionally, the agricultural practices followed by the farming community are water intensive. Consequently, the area becomes severely water-starved, causing immense hardship for the communities dwelling there.

Through our partner **National Agro Foundation**, the efforts to help this community focused on construction of water harvesting structures and changing the existing agricultural practices. Several water harvesting structures like check dams, percolation ponds, water absorption trenches etc were conducted along with



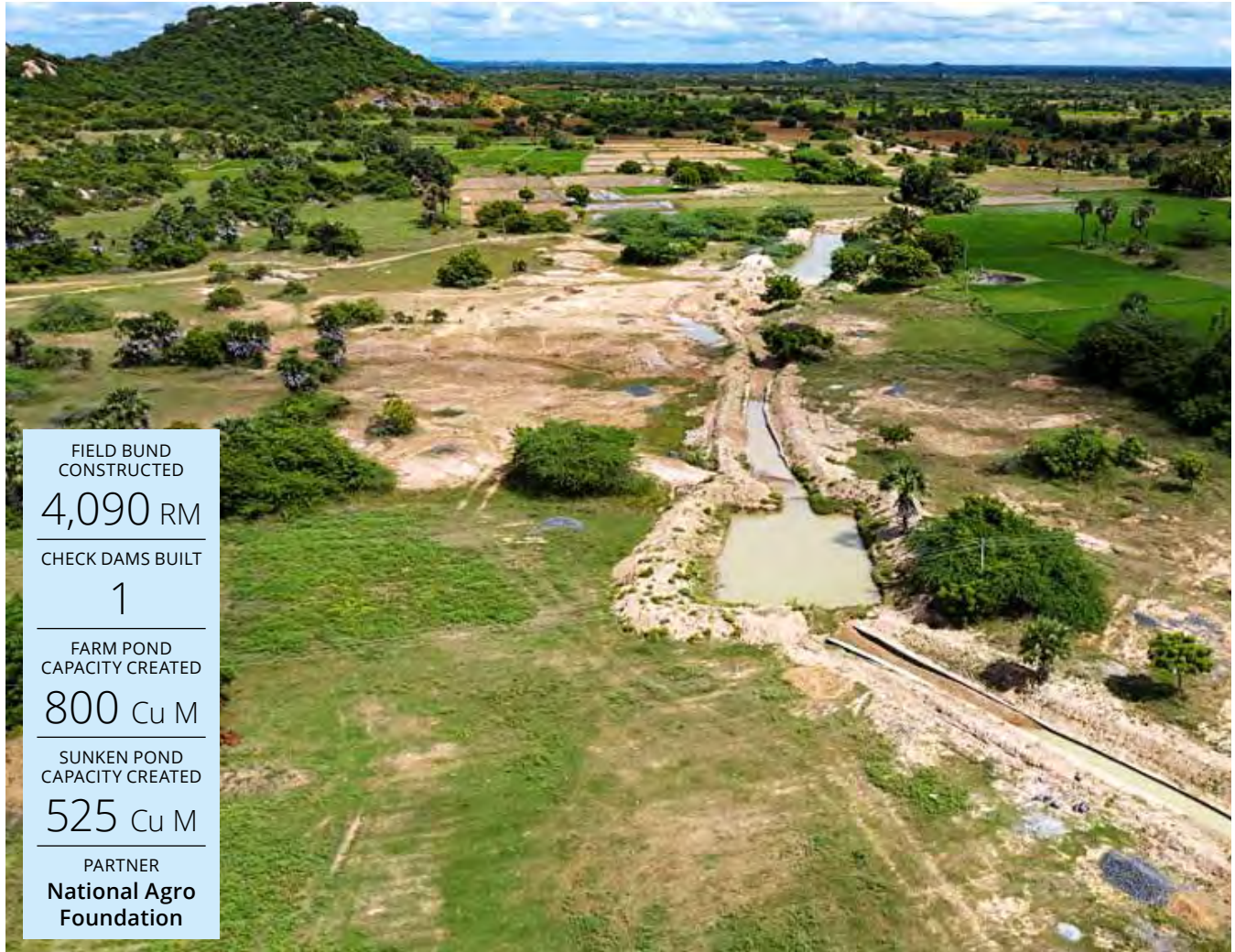
promotion of Lean farming techniques amongst the farming community. Trainings and awareness sessions were conducted to empower the community and align them with the purpose of the project.

This year, the project has benefitted around 1200 people. These new water retention structures will help curtail surface runoff, reduce soil erosion, and increase groundwater recharge. The community has come together to monitor and maintain these assets, giving rise to a sense of ownership.



## INTEGRATED WATERSHED MANAGEMENT

### Water resource development



The 1,578-hectare watershed of Kokkaranthangal is situated in Kancheepuram district of Tamil Nadu, and covers four villages – Kokkaranthangal, Amandhakaranai, Arcadu and Bhudhur. The undulating terrain of the watershed led to erosion of fertile topsoil and poor water-holding capacity. There were few water-harvesting structures, and the families residing in the watershed villages urgently needed reliable water for agriculture.

In the reporting period, our implementation partner **National Agro Foundation** mainly focused on water-

holding structures like check dams, farm ponds and sunken ponds to aid groundwater recharge and facilitate agriculture.

The water management structures constructed have helped the people from the watershed villages now have more reliable access to water. In addition to water available for agriculture, the villagers can now have safe drinking water as well. Agricultural productivity has also seen significant rise and the community is now empowered to take charge of the project activities.



## ENHANCING AGRICULTURAL PRODUCTIVITY

### Transforming landscapes for tribal communities



AREA BROUGHT  
UNDER IRRIGATION

74 hectares

SOLAR PUMPS  
INSTALLED

10

PARTNER

**Aga Khan  
Rural Support  
Programme India**

Despite heavy monsoon rainfall, Dangs in southern Gujarat, faces a water crisis each summer. The undulating terrain causes high surface run-off, and the presence of basalt rock inhibits groundwater recharge. The high velocity of the runoff causes soil degradation. This poses a threat to the region's economy, which depends chiefly on rainfed agriculture and livestock rearing, and drives poverty and seasonal migration. The problem is being exacerbated by climate change.

**Aga Khan Rural Support Programme India (AKRSPi)**, our project implementor developed a multipronged water conservation and irrigation programme. It focused on the blocks of Waghai and Subir, both among Gujarat's 50 poorest blocks. The interventions included installation of solar lift irrigation systems; implementing

drip irrigation on parched lands; and introducing vegetable and horticulture cultivation integrated with drip irrigation. 10 farm ponds were constructed in the area and the community was introduced to new soil conservation measures, that would ensure the fertility of the land. Additionally, trainings and capacity-building exercises were conducted in the community to bring in a sense of inclusivity.

Through this project, around 74 Ha of land has come under irrigation through installation of solar pumps, directly benefiting 157 tribal farmers. The farm ponds have provided irrigation support to farmers and created an opening for fisheries. Around 2000 people have been benefitted through this intervention this year.





## CASE STUDY 1

# Bringing water to Puthur

The Panchayat Union Middle School serves the village of Puthur. The headmistress, Arulselvi, says the school had lacked a proper drinking water facility for years. Several requests were given to the local panchayat and other departments to provide a water tank and facilities for the school children to get drinking water, but to no avail.

Finally, with support from LTTS, a 2,000-litre capacity water storage facility was provided, which is now used by **134 students and teachers**. There is now sufficient water to prepare mid-day meals for the children, and families residing near the school premises benefit from it too, making a huge difference to the community's quality of life.



## CASE STUDY 2

# Transforming Puriyambakkam



**Thanigaivel** is a resident of Puriyambakkam village and one of the beneficiaries of the integrated village development project (SUJAL). He says the entire farming community and their families used to face a water crisis for 4-5 months a year. Farmers grew only one crop a year due to the crisis, and most struggled to repay their loans from banks and local money lenders.

After water conservation measures like the building of check dams, channels, WAT and cattle ponds, there has been an increase in the groundwater level in the nearby wells, which has benefitted the farming community. Agroforestry and agro-horticulture saplings planted in the villages have also created a green cover in the local area.

Thanigaivel and many farmers are now going for a second crop in a year, earning extra income and repaying their loans.



# HEALTH

Good health is good life. It is a driver of growth and prosperity. A healthier community can enjoy a better quality of life and make way for a more dynamic workforce. As on 31st March 2021, there are 25140 Primary Health Care Centres (PHCs) and 5481 Community Health Centres (CHCs) in rural India. The number of doctors in the PHCs has also increased steadily by 56.2% from 2005 to 2021. However, there is still a need to ramp up resources and infrastructure at these centres to deliver better healthcare support to the communities.

At LTTS, we are committed to making healthcare accessible and affordable for marginalised communities and people of all ages. Our projects are aligned chiefly to address healthcare needs, particularly in rural India. Our interventions have covered a wide range of activities, from improved medical care to infrastructural support, medical equipment, vaccinations, funding for scientific research and many more.

This year, the healthcare activities had to be tailored differently. The second wave of Covid-19 had plagued the nation. Consequently, there was a significant focus on Covid-19 related activities under the Healthcare domain.

This year, our activities could be broadly classified as:

- **Covid-19 relief**
- **Mobile healthcare support**
- **Cancer awareness**
- **Comprehensive eyecare**
- **Infrastructure support**
- **Research and development**

Together, we hope these interventions would help ease the strain on the public health system and ensure that more Indians get access to basic healthcare services and enjoy a good quality of life.





## COVID-19 RELIEF

**Our Covid-19 related interventions could be further classified as reactive and preventive measures.**

### REACTIVE MEASURES

#### ICU on Wheels



When Covid-19 affected patients were ferried from their homes to hospitals, it was important that are not deprived of critical care during transportation.

In partnership with **Samarthanam Trust for the Disabled**, two ambulances with ICU support were launched that could ensure that Covid affected patients receive adequate medical support while travelling from their homes to the respective hospitals. They operated 24x7 and absolutely free of cost for marginalized communities in Bangalore. These ambulances were equipped with sophisticated medical equipment like oxygen support, ventilator, and others that provide advanced care.

Around 1,100 people benefitted through this initiative. This provided timely care to patients, which was the need of the hour.

#### Makeshift hospital



During the peak of the pandemic, there was an immense need for hospital beds with oxygen support, under the supervision of a physician.

A 19-bed makeshift hospital was constructed by our implementation partner **Swami Vivekananda Youth Movement** in Mysore. Each bed had attached oxygen support and the patients admitted, were under the constant supervision of a doctor. It is heartening to note that this entire facility was constructed within a record span of 12 days to ensure affected patients receive care at the earliest.

The makeshift hospital provided timely medical care to people affected by the coronavirus. Rural communities dwelling around Mysore benefitted greatly through this initiative, where they received care at a proximal facility.



## COVID-19 RELIEF

### Caring for children

To help children affected by the pandemic, we launched two initiatives.

#### Short-stay facility for children

Children, especially girl children whose parents were battling the deadly virus, were often left without supervision. There was a lack of a safe environment where they could stay till the time their parents recovered.

We facilitated Short-Term stays in Bangalore and Chennai in partnership with **SOS Children's Villages**



**of India.** The short-stay centre was equipped to house and feed children free of cost. The children were kept engaged with various activities like indoor games, sports, gardening, and others to create a positive atmosphere. They were cared for under the aegis of a Child Welfare Committee (CWC), in accordance with the Juvenile Justice Act.

During their time at the short-term stay centres, special efforts were made to ensure the child's confidence was restored and their needs were met. If the child could not be relinked with his/her families, they were then transferred to the SOS's long-term care centre.

#### Rehabilitating children orphaned by the pandemic



One of the most unfortunate consequences of the Covid-19 pandemic was that several children lost their parents to the virus.

We worked with **MILT Charitable Trust (Snehalaya)** to arrange for a permanent home for children orphaned due to Covid-19. By jointly collaborating with District Child Welfare Committee, we were able to accommodate young children at Snehalaya Children Homes in Bangalore. The facility provided shelter, food, and education free of cost to the children, who would be supported until they reach the age of 18.

A few children received support through this initiative. While their loss is irreplaceable, we hope they grow up to be successful human beings in future.



## COVID-19 RELIEF

### Medical equipment

In addition to doctors and hospital beds, adequate equipment was necessary to treat patients.

Through **Symbiosis University Hospital and Research Centre (SUHRC)** near Pune, we supported procurement of medical equipment, accessories, and consumables for Covid-19 treatment. The equipment sourced included defibrillators and other surgical accessories.

This initiative helped strengthen the existing infrastructure of the Symbiosis Hospital which was overwhelmed with the high case load of Covid-19 patients.



### Oxygen plant



One of the most crucial needs during the pandemic was that for oxygen supply.

In association with our parent organisation Larsen and Toubro Ltd, we facilitated the installation of an oxygen plant at **Saidapet Govt hospital** in Chennai.

Apart from catering to the needs of Covid-19 patients, this permanent facility would aid medical treatment in the future as well.

### Isolation kits



Face masks, sanitizers and other precautionary items became the most sought after during the Covid-19 pandemic.

Though **Mysore Corporation**, we distributed isolation kits containing face masks, sanitizers, gloves etc to underprivileged communities.

The isolation kits helped the communities get a certain degree of precaution against the virus.



### Covid-19 Reactive Measures Highlights:

- **Makeshift Hospital**
- **24x7 ICU Ambulance Service**
- **Oxygen Plant**
- **Equipment Support**
- **Isolation kits**
- **Support to orphaned children**

# COVID-19 RELIEF

## PREVENTIVE MEASURES

### Vaccination programmes



To prevent the further spread of the virus, it was imperative that a large part of the population is vaccinated rapidly. Unless everyone is safe, no one's safety could be guaranteed.

We joined hands with **Samarthanam Trust** for the Disabled to roll out vaccination drives for the vulnerable sections of the society that included People with Disabilities (PwD) and the elderly who otherwise found it difficult to access regular vaccination centres. Additionally, we also vaccinated students between the ages of 12 and 15 to facilitate their early return to school.



Around 10000 people were vaccinated through this drive including 1396 People with Disabilities. This process also involved sensitizing the communities about the importance of vaccination and conducting the drive by strictly adhering to Covid-19 protocol amid rising cases.

### Genome sequencing

Since its inception, the SARS-CoV 2 virus mutated multiple times. To complement vaccination, it was also important to aid the development of more efficient vaccines that would provide protection against the newer variants. Thus, there was an urgent need for genomic surveillance at a large scale to assess different variants for disease transmissibility, severity, and response to vaccination.



We supported the expansion of COVID testing, genomic surveillance, and research into vaccine responses against SARS-CoV-2 mutants at the **Indian Institute of Science (IISc)** in Bangalore. The support was principally in the form of infrastructure support.

Our interventions aided the institute's SARS-CoV-2 mutation research, which proved pivotal for planning vaccination campaigns and other preventive public health measures for the state and the region. The research has allowed health professionals to adjust diagnostic and vaccination strategies. Furthermore, the infrastructure and human resources created during this project will be useful beyond the current pandemic, enabling future pandemic preparedness, research into other viral pathogens and the fight against antimicrobial resistance in bacteria.

### Covid-19 Preventive Measures Highlights:

■ **Mass Vaccination**    ■ **Genome-sequencing of the virus variants**





## MOBILE HEALTHCARE SUPPORT

### Geriatric care

With age, people become vulnerable to contracting diseases more easily and are often in need of periodic health check-ups. With a major percentage of India's population residing in rural areas, most of the medical visits are made by people from rural areas, the majority of whom travel great distances to avail treatment. For the elderly population, travelling such long distances becomes a challenge. Moreover, most of these people are daily wage earners and visiting the healthcare centre automatically translates to loss of pay for one day.

In an effort to deliver primary healthcare to the elderly, we facilitated a Mobile Healthcare Unit (MHU) in Vadodara, Gujarat, through our partner **HelpAge India**. The unit was equipped with doctors and paramedic staff and provided services like free consultations, referrals to pathological labs or secondary/tertiary healthcare service providers for specialised treatment, and free



medicines for common geriatric ailments including hypertension, diabetes, and arthritis. The unit made periodic visits to the village and delivered healthcare services right at the doorstep of the villagers.

This year, around 18000 people benefitted directly through medical consultations. Through this initiative, several elderly people received timely diagnosis and treatment, right in front of their homes, a facility, that would have been a dream a few years back.

### Mobile clinic

In Dharampur, a remote village in Gujarat, the nearest healthcare facility is situated quite far off. For the economically vulnerable people, travelling to the hospital is an expensive affair. Travelling for one day is equivalent to losing pay for a day. Moreover, the elderly and ailing people find it even more difficult to travel such long distances.



We partnered with **Shrimad Rajchandra Sarvamangal Trust** to support a Mobile Clinic for underprivileged tribal communities in southern Gujarat. We were able to reach beneficiaries who would otherwise have not been able to reach a hospital or even a health camp. The Mobile Clinic provided treatment at the doorstep for illnesses like anaemia, malnutrition, malaria, common cold, diarrhoea, dehydration, worm infestation, skin diseases and gynaecological problems.

Patients received quality treatment and medication free of charge, and those needing further treatment were referred to hospitals for specialized attention.

Our efforts have helped alleviate suffering and prevented further complications for a few people. The Mobile Clinic treated around 6000 people last year, over 3300 of whom are women.

## CANCER AWARENESS



Many communities in India, particularly in rural and semi-urban areas, lack access to cancer care and guidance. 80% of oral cancer is directly attributable to tobacco use. Over 32% of rural population are tobacco users who have poor awareness about preventive steps and recognition of early stages of oral cancer. Early detection gives us chance to reduce mortality rates; for which screening



helps in identifying lesions in a cost-effective manner. In addition to oral cancer, Breast cancer and Cervical cancer cases are also rising rapidly in India, especially among the young and middle-aged women. In fact, the 3<sup>rd</sup> highest instance of cancer is that of Cervical cancer.

People reached through awareness sessions, screening camps, surveys, bridge/treatment funds, tobacco cessation counselling and home care treatment

7,577

PARTNER

Indian Cancer Society

Through our collaborative efforts with **Indian Cancer Society**, Population Based Cancer Screening (PBCS) was conducted to promote early diagnosis and prompt treatment. With PBCS, the entire population in an area is covered by a survey. This helps create cancer awareness among people. The survey helped us identify individuals who were at high risk and required cancer screening. In addition to screenings and surveys, a Bridge Fund was set up to meet partial treatment cost for few selected beneficiaries. Cancer survivor kits containing wigs and prosthetics were distributed to women cancer survivors to boost their morale.

Around 7500 people benefitted through 40 awareness sessions, 23 screenings camps and 6 surveys. 111 cancer survivor kits were distributed and 31 people received Bridge funding.



## COMPREHENSIVE EYECARE



In Thane and Raigad districts of Maharashtra, there is a dearth of a local ophthalmic facility. With poverty and poor transportation facility, access to quality healthcare is also limited. We also believe that visual impairment is more than just a health problem, it has economic, educational, and safety implications.

Through our partner **Laxmi Charitable Trust**, two Primary Vision Centres were established to provide comprehensive eye care to the beneficiaries. Patients were treated for a range of eye ailments including referrals for advanced diseases like glaucoma and retina related problems. Eye care and awareness sessions were conducted to educate residents on refractive errors, use of spectacles and the importance of vital eye surgeries. This was a critical initiative in an area where almost 30% of the 50 lakh residents live below the poverty line.

Today, because of our intervention, around 7300 people have access to comprehensive eye care facilities and could avail of basic treatment and advice for vision-related issues.

EYE  
CONSULTATIONS  
CONDUCTED

7,316

SPECTACLES  
DISTRIBUTED

592

PARTNER  
**Laxmi  
Charitable  
Trust**

## INFRASTRUCTURE SUPPORT

## Modular C-arm



Upgrading existing infrastructure facilities at healthcare centres is imperative to delivering quality medical care.

Modular C-arm with  
Flat Panel Detector

Digital imaging  
with refined post  
processing features

PARTNER  
**MLD Trust**

We funded the procurement of a Modular C-arm with Flat Panel Detector (FPD) through **MLD Trust** in Palghar, Maharashtra to offer better, safer, and precise results to patients. This equipment at a rural, remote facility will help patients have access to advanced treatment at a nominal cost.

## Ultrasound equipment

The adoption of new and updated technology offers various benefits in medical practice and an efficient way to provide quality care and treatment to patients. Evolution of technology is very much crucial in hospitals and ambulatory surgical centres.

Advanced ultrasound  
machine

Premium & Advanced  
Colour Doppler System

PARTNER  
**Military Hospital**

We supported procurement of an Ultrasound equipment in **Military Hospital**, Wellington. This equipment is well suited for the clinical and workflow demands of general imaging, giving better results to patients.



## RESEARCH &amp; DEVELOPMENT

## A bid to end manual scavenging



Robotized homogenization/  
cleaning in septic tanks &  
sewer lines

Portable transport &  
operations

PARTNER  
**IIT Madras**

Even today, India has a sizable number of manual scavengers despite legislative efforts to prohibit the practice. Driven by poverty, these scavengers undertake an unhygienic and dangerous job that claims many lives every year. Across the country, they remain undocumented, underpaid, and ignored.

To work towards eliminating the need for manual scavenging, we supported **IIT Madras** in fabricating and distributing two HomoSEP robots along with safety kits. The HomoSEP is a field-tested solution developed for robotized homogenization and cleaning of Septic Tank Inspections (SIRS) in sewer lines. The robot is based on a series of technological developments at CNDE over the last two years. It has undergone rigorous testing, with several innovations in blade design for entering through narrow openings, and a blade profile suited for homogenization and portable transport and operations.

We hope through this intervention, we can take a step towards bringing about lasting change in sanitation worker communities, helping them transition to alternative livelihoods and save lives in the bargain.

## Anti-cancer drug

Cancer is a disease that has plagued the world. With every passing year, the number of cases continue to rise. While scientists and researchers across the globe are working round the clock to devise possible treatment options for this deadly disease, availability of a drug at a reasonable price can help a wide range of people across various layers of the social strata.



Microbial  
Fermentation  
technology for  
CPT production

Sustainable,  
scalable, uniform  
high-quality  
production

In-vitro cultivation  
of *Alternaria  
burnsii* for CPT  
production in  
bioreactors

PARTNER  
**IIT Madras**

We supported **IIT Madras** in their efforts to develop a synthetic alternative method to produce Campotothecin. The Campotothecin (CPT) molecule is an alkaloid typically isolated from the Chinese tree *Camptotheca acuminata* and the Indian tree *Nothapodytes nimmoniana*. Due to high market demand and overharvesting, both these plants had become endangered, and a synthetic alternative was needed. We funded the development of a sustainable technology to produce a key molecule used in the treatment of various cancers.

This technology successfully provided sustainable, scalable, and uniform production and guaranteed high quality.

Supporting research through CSR is one of our key objectives. We sincerely hope this research can help thousands of individuals battle Cancer, in a cost-effective and sustainable way.

**CASE STUDY 1**

# Prevention is better than cure

Neetu Prakash, a 33-year-old residing in Kammanahalli slum, visited the camp conducted by ICS to screen for breast and cervical cancer. On examination, the staff observed complex tissue findings in the right breast. The patient panicked when they said she needed further investigation. But they reassured and counselled her, and she agreed to visit for a follow-up. A diagnostic mammogram was conducted, but fortunately, there were no positive findings. Neetu is grateful to ICS and **LTTS** for making her aware of the potential risks. She said this was a wake-up call and assured our team that she would now get herself screened every six months.

**CASE STUDY 2**

# A ray of hope for Kishore

Kishore, an 8-year-old boy, was diagnosed with blood cancer when his father, a mechanic by profession, took him to the hospital to check his eyes. This was a shock for the family. The pandemic had put immense financial pressure on the father, and he approached ICS for assistance. Through the Bridge Fund programme of ICS, supported by LTTS, he received financial help of Rs. 25,000 to start the treatment. In his words, "At that moment in life when I was in deep anguish, ICS came as a ray of hope. Today my child has recovered after treatment, and I am happy and thankful. People like us have hugely benefited from organisations like ICS and **LTTS**."







# EDUCATION

Education is a powerful agent of change. It plays a pivotal role in the development of a society. It taps human potential by providing opportunities for advancement and drives long-term societal growth. India has one of the world's largest public education systems, with more than 15 lakh schools, 97 lakh teachers and 26.5 crore students. Despite challenges in infrastructure, teacher retention and funding, the system continues to grow and evolve. In 2020-21, there was a rise in enrolment of 28 lakh over the 2019-20 figure, with a significant rise in teacher numbers. The government has invested significantly in new learning tools, and 41% of schools now have computers available, while 82% have libraries.

To supplement these efforts, LTTS has designed interventions based on infrastructure support, concept-based learning to improve students' performance, teacher training programmes and easier access to quality education. We have partnered with organisations to help students, teachers and communities redefine learning. These interventions have delivered high-quality education to nurture India's academic talent and created opportunities to help them advance.

This year, our interventions centred around:

- **Digital education**
- **Infrastructure support**
- **Science education**
- **Community libraries**







## DIGITAL EDUCATION

## Transforming teaching, redefining exam preparation

Adapting foundation skills at a young age helps to shape one's life. With effective teaching aids and guidance, children from semi-urban and rural areas, who study in their native language, have equal chances of excelling in their careers.

Our partner **Prerana** began conducting remote learning sessions for students in Kannada and English. Application-



oriented teaching methodology was used to make Science, Mathematics and English classes more interactive for students from classes 9 and 10. The classes were closely monitored through regular visits to the schools and online reviews, and tracking student performance.

This engaging pedagogical method, which makes use of advanced technology, has made learning enjoyable for both students and teachers. Students can now find high-quality study materials in their own language. As the classes are recorded, they also have easy access to recordings throughout the year, allowing them to revise as many times as they want. They can also take multiple practice tests and receive instant feedback.

STUDENTS  
BENEFITTED

927

TEACHING  
HOURS

420

PARTNER  
**Prerana**

## Bringing digital learning to remote communities

STUDENTS  
BENEFITTED

525

TEACHING  
HOURS

915

PARTNER  
**eVidyaloka**

Very often, students from low-income families sacrifice education to prioritise a livelihood. Limited access to technology and resources furthers this problem, and many students simply drop out. The formation of a digital learning environment with online classes for underprivileged students can help these students get access to quality education and carve out a niche for themselves.

A Digital Classroom Programme and Learn from Home multi-modal system was implemented by our partner **eVidyaloka** to help students from Classes 5 to 8 learn Science, Mathematics and English. The project catered to schools from remote districts of Jharkhand, West Bengal and Andhra Pradesh. A curriculum was planned in consultation with schools. Devices such as tablets, Bluetooth speakers and smartphones were provided to connect the students with these remote teachers. Students' performance was recorded through Open-House examinations. The teaching is complemented with a lot of other extra-curricular activities like quizzing, painting, debates etc.

Powered by technology, the interventions have attracted students to interact with, and learn from, the volunteer teachers. Meanwhile, exposure to activities outside the classroom has helped develop their interpersonal skills, ensuring all-round development of every child.

## INFRASTRUCTURE SUPPORT

### Powering the future of machine learning



India ranks third among the most attractive investment destinations for technology transactions in the world. Modern India has had a strong focus on science and technology, realising that it is a key element for economic growth.

Support to Medical Imaging Group (MIG) and FLAME Lab

A deep learning workstation with advanced computation engines

PARTNER  
**Indian Institute of Science**

We facilitated infrastructure support for a Deep Learning Lab at the Department of Computational and Data Sciences at the **Indian Institute of Science (IISc)**, Bangalore.

This intervention is giving students hands-on experience with state-of-the-art computing environments, on cutting-edge areas such as machine learning related to scientific computing and medical image computing. It will enable research groups from the Department to gain expertise in the development of numerical methods, numerical analysis, data-driven modelling methods and parallel algorithms for many core and heterogeneous architectures.

Our support is providing cutting-edge computational power to help the FLAME Lab conduct research into detection and forecasting of extreme events in scientific data, and to assist MIG with research in model-based and data-driven computing for medical imaging.

### Digi Labs and Teaching Learning Centres for tribal schools



LEARNING CENTRES  
ESTABLISHED

6

TEACHERS  
SUPPORTED

71

STUDENTS  
BENEFITED

3,888

PARTNER  
**LTPCT**

Quality education is incomplete without proper resources. It is daunting for students to access high-quality learning materials without effective guidance. The lack of digital infrastructure often exacerbates this problem.

**L&T Public Charitable Trust** via a pilot programme in six integrated tribal development schools established Teaching and Learning Centres (TLCs) through support from an NGO Digant Swaraj and the local government. Teachers were invited to workshops on technology and new teaching methods. Digi Labs for students, equipped with computers, printers, scanners, internet access and UPS inverters were created.

Teachers are now incorporating digital technology in their classrooms. This intervention has helped in their capacity building as they have started developing their own learning resources. They are now able to address the unique needs of individual students. Meanwhile, the students get privileged access to these resources and facilities. The change in infrastructure has transformed the overall quality of teaching and learning.



## SCIENCE EDUCATION

## Introducing interactive learning

STUDENTS  
SERVED BY  
WORKSHOPS

5,511

TEACHERS  
TRAINED

128

PARTNER  
**ARCH**  
Development  
Foundation

Science education is incomplete without practical learning. The knowledge derived through textbooks and conventional learning, if supplemented with exposure to equipment, models, and experiments, can amplify the impact of learning amongst students. When classes shifted to the virtual mode, teaching science through experiments and demonstrations became a challenge.

However, our implementation partner **ARCH Development Foundation** ensured that students have unhindered access to experiential learning and started conducting workshops online. To keep up the students' interests, several virtual competitions were also held. Additionally, career guidance and teachers' training programmes were planned and executed during the reporting period.

There is a marked increase in attentiveness of students after exposure to these methods, compared to traditional classroom teaching. Even during lockdown, the students have shown a keen interest in learning and have come up with innovative and unique ideas through their projects. The teacher training programmes have now popularised demonstration-based teaching methods for science and mathematics, paving the way for more effective learning.

## A new paradigm of experiential science learning

Integrating Technology with CSR has been one of our key objectives. With the world gradually shifting to the digital medium, we are striving to take steps towards ensuring that children from rural India are not left behind. Through projects, infrastructural support, and indirect interventions, we are designing our initiatives to bring the digital world closer to the most underserved and remote communities.

**Agastya International Foundation**, our on-the ground implementor has introduced a grade-specific Explore-

ONLINE  
SESSIONS  
CONDUCTED

1,277

TEACHING  
HOURS

1,627

PARTNER  
**Agastya**  
International  
Foundation

Play-Learn (EPL) module where students are virtually introduced to concept-based learning. To supplement these classes, Science Fairs, webinars, workshops, and camps were organized online, which served as a medium of exchange of ideas.

The project provided an interactive platform to engage both teachers and students. The use of demonstrations with real-life examples has made it easier for children to make practical connections to theoretical knowledge. This has promoted scientific thinking and encouraged their curiosity, which will stand them in good stead going forward.





## COMMUNITY LIBRARIES



The Covid-19 pandemic caused severe learning gaps amongst learners throughout the world. Children from the small remote island of Majuli in Assam were no exception. The existing socioeconomic and geographic challenges posed further hurdles to children's access to education.

In association with **Ayang Trust**, 20 community libraries were set up with books, tablets, and other stationery items.

The libraries are now busy learning spaces with daily activities such as book talks, storytelling and read aloud sessions. Today, each library caters to 70 children daily. Every child borrows at least one book a month and weekly attendance is around 70%. Nearly all the children enthusiastically participate in these engaging activities and learn from them. With this initiative in place, we hope to make the Community Library a centre for village development activities.

LIBRARIES SET UP

20

BOOKS  
PROCURED

11,529

CHILDREN  
BENEFITED

600

PARTNER

**Ayang Trust**





### CASE STUDY 1

# Helping Guru dream big



Guru is an alumnus of GHS Chakkere, now pursuing a Diploma in Electrical Engineering from the Polytechnic College in Channapatna. He scored 93% in his SSLC board exams in March 2022.

Guru's father left the family when Guru was a child and his mother worked as a tailor to support her two children.

Having seen his mother struggle as a single parent, he dreams of taking good care of her once he is financially independent.

He says virtual classes by **Prerana** have helped him immensely. He found the math sessions with demos, animations and practice questions most helpful, and the simple step-by-step explanations made it easy for him to grasp concepts. Above all, he says seeing an electric circuit for the first time in the class was his most memorable experience.

The lack of regular classes during the pandemic made him nervous about the SSLC board exams. However, Prerana's sessions made abstract concepts straightforward to understand. The visually interactive sessions were combined with PPTs, animation, videos and experiments. Exam preparation sessions with worksheets and question paper practice helped him prepare for the exams and gain confidence, which will stand him in good stead as he eyes his next challenge.

### CASE STUDY 2

# Inspiring Latha to set new goals



Latha, a student of Maragondanahalli GHS, is a diligent and hardworking student. She scored 95% in her SSLC board exams in March 2022 and is now pursuing her 1<sup>st</sup>-year PUC at Siddhanga College.

Latha's father committed suicide and his death left her mother devastated. She worked odd jobs to support her young children.

Growing up, Latha saw her mother struggle to make ends meet, and she feels that education is the way out of poverty for her and her family.

She says **Prerana's** online sessions were highly beneficial as her school did not have a science teacher, and these virtual classes filled the gap. Visually interactive lessons with demos and videos helped her gain conceptual clarity.

She found the biology sessions most interesting, as the animations and models of the organs deepened her love for the subject. They inspired her passion for biology and fuelled an ambition to become a doctor – a dream for which she is well on track.



# SKILL DEVELOPMENT

India is gradually moving towards becoming the Skill Capital of the world. With one of the youngest populations in the world, the country's economy can grow rapidly through a workforce trained in employable skills. As per the NSSO's report on Status of Education and Vocational Training in India, among persons of age 15-59 years, about 2.2% reported having received formal vocational training and 8.6% reported having received non-formal vocational training. Therefore, there is a need for human resource development to power national growth. This is the guiding principle behind our various projects on skill development.

We have focused our interventions on underdeveloped regions with low skill and literacy penetration. We have striven to develop employable skills in basic computer application, communications, accounting, and many more. We have promoted livelihood opportunities in semi-urban and rural regions, to build a local ecosystem for jobs.

Our programmes focus not only on developing key technical skills, but also cultivating a spirit of entrepreneurship. Many of the youth and women we encountered in our projects have been enterprising by nature, but often lacked access to infrastructure and technology that would enable them to build businesses and create market networks. Through training programmes, linkages and exposure to employment and business opportunities, we were able to provide a launchpad for their livelihoods. These interventions have helped improve their immediate material conditions, as well as induced institutional change at the community level that could sustain the livelihood needs of future generations.

This year, our interventions have focused mainly around:

- **Entrepreneurship skilling**
- **Vocational skilling**
- **Sector-specific skilling**







## ENTREPRENEURSHIP SKILLING

### Supporting young micro-entrepreneurs

Raichur district of Karnataka ranks last on key Human Development indicators in the state, including mortality rate, literacy, and poverty. These factors, combined with the pandemic-induced reverse migration, created a desperate need for employment for the local youth population.

We supported a project that focused on developing entrepreneurial mindset among vulnerable youth and women in communities affected by COVID-19. Our project implementor **Head Held High Foundation**, rolled out skill and capacity building interventions for young micro-entrepreneur groups. A mentoring module was developed to help aspiring entrepreneurs and craft-based organisations access business linkages, and learn cataloguing, quality assurance, logistics, and business planning for income diversification. The General Entrepreneurship Training programme provided 75 youth with introductory training. This was followed by 100 hours of specialised training in entrepreneurship, with the goal of mentoring the enrolled youth through their entrepreneurial ventures.



Promotion of gender equality through the Community Sakhi mentorship programme, which trained women as community leaders, was also one of the focus areas.

This project has created a close-knit social network with enterprise and sustainability at its heart. The programme has instilled a renewed community spirit in one of the most economically disadvantaged regions in Karnataka, promising sustainable employment for the future. Of the 75-youth trained, 41 have started small businesses of their own, earning around INR 5000 per month.



YOUTH TRAINED

75

BUSINESSES  
STARTED AS  
A RESULT OF  
TRAINING

41

PARTNER  
**Head  
Held High  
Foundation**



## VOCATIONAL SKILLING

### Digital literacy and Tally training



YOUTH REACHED  
BY DIGITAL  
LITERACY TRAINING

430

YOUTH TRAINED  
IN TALLY  
COMPREHENSIVE  
AND TRIPLE-C  
PROGRAMME

120

STUDENTS  
TRAINED IN TALLY  
AWARENESS

350

PARTNER  
**L&T Public  
Charitable  
Trust**



In addition to conventional education, young people are often required to develop certain employable skills that give them an edge over their peers in the competitive job market.

In Gujarat's Navsari district, we are working with **L&T Public Charitable Trust** to provide training in key employable skills to school dropouts and unemployed high school graduates.

Three training programmes were conducted at the Anil Naik Technical Training Centre in Navsari. A Digital Literacy training programme for school drop-out trainees helped upgrade their IT skills and improve

their employment prospects. Training in 'Tally Essential Comprehensive' and 'Triple C' provided employment-oriented technical knowledge to recent school graduates, helping them boost their income prospects. Additionally, a "Tally Awareness" programme for students from classes 11 and 12 was organized to enhance their skill sets at an early stage, giving them a head-start in the race for a successful career.

This intervention helped train 430 youth in digital literacy and 120 youth in Tally comprehensive and Triple C courses. 350 students were benefitted through the Tally awareness programme.







# VOCATIONAL SKILLING

## Skill-Able: empowering people with disabilities



YOUTH TRAINED  
100

PARTNER  
**Samarthanam  
Trust for the  
Disabled**

People with disabilities often face systemic exclusion and stigma from the society. In Karnataka, 50% of the state's 6 lakh people with disabilities reside in the districts of Belgaum and Bellary. 35% of these people are youth with disabilities who have long faced barriers to education and dignity, and now lack livelihood opportunities.

We partnered with **Samarthanam Trust for the Disabled** to provide skill development training to 100 underprivileged youth with disabilities from Belgaum and Bellary. The project helped equip the beneficiaries with sector-specific vocational training, personality and language development, digital and financial literacy, and career guidance. In addition to technical knowledge, the

training also delivered practical experience, through exposure visits to places such as the Parle Factory, the Karnataka Milk Federation, Jina Steel Company, Jain Engineers and HLL Life Care Limited.

After the training, the trained candidates were connected with potential employers to improve their chances of getting employed and help them break the barriers of prejudice. Through focussed skilling and placement efforts, 59 candidates with visual, speech, and hearing impairments and physical handicaps, were placed in companies across the IT, BPO, e-commerce and retail sectors.







## SECTOR-SPECIFIC SKILLING

### Promoting a Skill Development Centre



Reverse migration and the loss of mobility during the pandemic had severed many people's links to their sources of income in more developed regions. The lack of access to infrastructure had halted community skill development in many areas.

The Sanjay Hegde Skill Development Centre was set up in conjunction with our partner **Seva Sahayog Foundation** to promote livelihood opportunities for youth and women in Boisar, near Mumbai. This helped us address one instance of the disproportionate impact of the pandemic on semi-urban and rural India. The intervention aimed to empower these rural communities

to sustain their livelihoods through local enterprise, thereby eliminating their need to rely on inaccessible work in metropolitan regions. Unemployed youth were offered Computer Training, Advanced Tailoring Training, Agriculture Training, Basic Beautician and Basic Salon Training, Poultry Farming, Goat Farming and Home Chef Training. These diverse skillsets offered trainees the choice to seek employment outside the village or initiate entrepreneurial ventures within their communities.

The Centre has provided 156 villagers with various sector-specific skills. Residents are being guided and assisted in setting up businesses. Local farmers are being trained in modern farming methods to increase productivity. The Skill Development Centre helped us create market linkages through capacity building, enabled technology-driven solutions to economic challenges and promoted women's empowerment and education.

PEOPLE GIVEN  
AGRICULTURE-  
BASED  
TRAINING

60

PEOPLE  
TRAINED IN  
POULTRY  
FARMING

59

PEOPLE  
TRAINED IN  
COMPUTER  
SKILLS

37

PARTNER

**Seva  
Sahayog  
Foundation**





# SECTOR-SPECIFIC SKILLING

## Skilling tribal communities

The Jenu Kuruba Tribe in Manchegowdanahalli Haadi, a hamlet on the fringes of Nagarhole Forest in Karnataka's Mysore district, is classified by the Indian government as a 'Particularly Vulnerable Tribal Group' (PVTG), with members relying on daily wage labour for sustenance, due to a lack of education and scarce employment opportunities.

**Swami Vivekananda Youth Movement**, our partner for the project, conducted need-based skill development programmes for the tribe. Multiple focussed training interventions were

enacted for selected groups of people based on their evaluated skill needs. The trainings mainly included agriculture-based training, entrepreneurship training and training in employable skills. In agricultural skilling, members were trained in dairy farming, goat and sheep farming, fisheries, and on soil testing and establishment of seed banks. These seed banks helped conserve indigenous seeds and tubers for food and nutrition security. To enhance the fisheries training, 11 sets of fishing boats and nets along with safety jackets were donated.

A cold-pressed oil extraction unit was set up in the village through the entrepreneurship initiative. Lastly, select members of the youth were upskilled in Computer-based skills and Spoken English.

110 tribal people were trained through the above-mentioned interventions. These livelihood trainings will help promote the feeling of inclusivity for communities like the Jenu Kuruba and put them on the path to prosperity.



YOUTH GIVEN  
AGRICULTURE-  
BASED TRAINING

90

YOUTH TRAINED  
IN HANDLING OIL  
EXTRACTION UNIT

10

YOUTH TRAINED  
IN SPOKEN  
ENGLISH AND  
COMPUTER SKILLS

10

PARTNER  
**Swami  
Vivekananda  
Youth  
Movement**







## CASE STUDY 1

# Lending Prashant a helping hand

Prashant Ramu Takotrao is from Halyal, a village in Athani Taluka, Belagavi District. He belongs to a low-income family and lives with his parents and two siblings. His parents are farmers and have a small landholding. This provides a meagre income, which they supplement with other work outside the farming season.

Prashant has been speech- and hearing-impaired since birth. He studied up to SSLC, but could not continue his education further due to financial problems. To supplement his parents' income, he wanted to find a job, but was hampered by his disability.

That was when he heard about the Skilling programme at **Samarthanam Trust** for the Disabled in Belagavi. He enrolled for three months of training with the hope of getting a job after the training, taking care of his daily expenses on his own, and taking care of his family. At Samarthanam, he learnt to use the computer and became familiar with MS Office and other online applications. Improved communication in English also helped him acquire soft skills. After the training, with the help of placement support from Samarthanam, he successfully cleared the interview in Reliance SMSL Limited and got recruited as Customer Service Associate, with a salary of nearly Rs. 15,000/-. He is profusely grateful to Samarthanam Belagavi for providing the training and placement support at a time when he really needed help.







## CASE STUDY 2

# Giving wings to Hosapete Veerasha



Hosapete Veerasha belongs to an underprivileged family from Kolagallu, in the Ballari district of Karnataka. His parents are farmers and have a small patch of land on which they depend for their livelihood. Hosapete had studied for a Degree at SSA Government First Grade College, Ballari. However, the income earned from the land was insufficient for his parents to support his higher education. Therefore, he began assisting his parents in farming.

Besides the financial problem, he also lacked computer and English knowledge, and therefore could not approach any recruiter for employment. In such circumstances, he heard about the Skilling programme at **Samarthanam Trust** in Ballari. He enrolled in the programme to develop

more employable skills and knowledge.

At Samarthanam, he was educated in MS Office, communication skills, soft skills and typing. After three months of training, he learned to use MS Office better, and was able to hold fluent conversation in English, besides improving his typing speed.

After completing training, he attended interviews at various companies and succeeded in getting through to an interview at Seven Hills Mart. He was placed as a cashier with a regular monthly income. With this income, he can support his parents in running the household. He is grateful to Samarthanam for intervening in his life to help him become independent.



# CORPORATE VOLUNTEERING

The LTTS Corporate Volunteering Programme is an initiative that furthers our commitment to the society. Every year, we ensure a hearty participation by employees across all verticals through various employee engagement activities and volunteering programmes. This gives our employees an opportunity to give back directly to the lesser fortunate communities. When the pandemic was wreaking havoc across the country, like our other CSR projects, conducting Corporate Volunteering programmes also posed a challenge. But fuelled by the sheer enthusiasm and passion of our employees coupled with cooperation from our NGO partners, we conducted activities virtually for the year 2021-22.

We supported two educational initiatives under this programme, apart from an awareness drive through which employees voluntarily pledged their eyes. The two educational initiatives included a virtual teaching programme and a mentorship programme. These initiatives allowed LTTS employees to share their knowledge and experience with young students from underserved sections, to help them maximize their potential. It also helped us focus our efforts on those hit hardest by the pandemic, to help them make a fresh start and minimise the disruption to their lives.





### Learning from home

The pandemic affected the education of children across India, and rural communities were hit the hardest. Schools were shut and classes had to be shifted online.

To make this transition smooth, our partner **eVidyaloka** launched a lockdown initiative to teach children from villages across India, so that they could continue learning and would not be forced to drop out. The programme involved activity-based learning at home under the tutelage of volunteer teachers. 14 LTTS employees virtually taught Mathematics, Science and English to 687 students from classes 5-8. The focus was to impart lessons in local languages like – Hindi, Bengali, Telugu, Marathi, Kannada, or Tamil. In all, the LTTS volunteers devoted 438 teaching hours towards teaching the students.

This programme has helped improve learning outcomes and given some of India's most vulnerable children a chance of academic success at a difficult time.



### Committed to a new vision

72 LTTS employees pledged their eyes during the National Eye Donation Fortnight between 25<sup>th</sup> August and 8<sup>th</sup> September 2021. This was part of a virtual drive planned through VisionMate to generate awareness

on corneal blindness and the importance of organ donation. We hope this gesture will encourage more people within and beyond LTTS to appreciate the importance of eye donation and follow in their footsteps.





## Mentoring future engineers

Many Engineering students in India are from underprivileged backgrounds and are often the first learners in their families. With limited access to guidance, they frequently struggle to navigate the path from campus to corporate life.

The **Foundation for Excellence** (FFE) offers scholarships to talented students pursuing degrees in Engineering, Medicine, Law and Pharmaceuticals. We supported few of these students with a mentorship programme. Being an Engineering Research & Development organisation, rendering support to budding Engineering students thrilled us. Our employees heartily participated in this initiative, where they could guide 3<sup>rd</sup> year Engineering students in securing placement. The programme

enabled the students to interact with our employees in one-on-one Mentoring sessions.

It helped them acquire essential skills to build the foundation for a good career. These included communication skills, time and stress management, etiquette, problem-solving and decision-making, interpersonal skills, and career development. This year, 40 LTTs volunteers have mentored 40 3<sup>rd</sup>-year engineering students, devoting 860 hours of their time. FFE has termed our volunteers "one of the anchors of the programme". The programme has created a bridge between corporate professionals and students from humble backgrounds and given a valuable impetus to the students' career.

### Shakeel Mohammed G

Electronics and Communication Engineering, Anna University, MIT Campus



My mentor was Pramod Kumbha Sir. The materials provided by FFE were very useful. They gave me a valuable overview of everything that my mentor covered, and he taught me those topics with great clarity and detail. The thing I liked the most about my mentor is that he was open to ideas and suggestions. He was ready to hear my perspective about everything. He was always available to help me whenever needed. I am grateful for his rigorous support and guidance.

### Suhas BG

Information Science and Engineering, JSS Science and Technology University



My Mentor was Senthil Kumar M Sir. He is a humble and knowledgeable person. I really admired his teaching skills. He was very friendly with me from the beginning, which made me comfortable in all the sessions. The study materials were very helpful in understanding the required skills. Overall, it was an amazing experience to be part of the Mentoring programme. I feel fortunate to have had a mentor like Senthil Sir.

### MENTOR

### Bhumika M

The Mentoring Programme is so far the best way to help budding scholars, to motivate and make them IT-ready. I really enjoyed the journey throughout and there is so much more to learn from this. The student whom I mentored is now placed in EY with a decent package for freshers. I look forward to working with FFE again.



### MENTOR

### Kamala Manohari

My mentee was very enthusiastic and dreamt of achieving great things in his career. His innate desire to develop himself and his ability to learn new concepts was admirable. Wishing him all the very best. I would love to take on more modules for the programme. It was a very satisfying journey as Mentor.





# LAURELS AND ACCOLADES

The smiles of our beneficiaries are our biggest reward. Nothing makes us happier than the fact that our efforts have been able to touch the lives of a few vulnerable people.

However, a formal acknowledgement of our interventions motivates us to do more. It gives us immense pleasure to share that our CSR interventions have been appreciated and recognized with the following awards.

## Business World Award



## ASSOCHAM Award



## Golden Peacock Award



## CSR Journal Excellence Award





# MEDIA TESTIMONIALS

**ARCH Development Foundation:** Media coverage of Echo School project in Gujarat Mirror



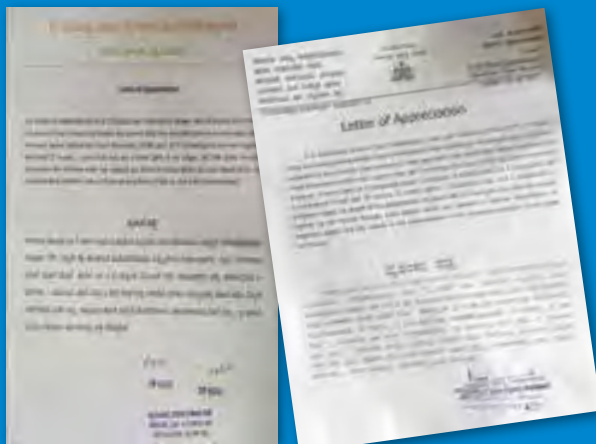
**India Rising Trust:** Bison section featured in the Times of India and Bangalore Mirror



**Samarthanam Trust for the Disabled:** Media feature of ICU Ambulance support



**SVYM:** Makeshift Hospital, Star of Mysore



**SVYM:** Letter of appreciation for Solar electrification of Chikkabaragi and Vaderhalli Haadi hamlets



**Samarthanam Vaccination:** Kannada Media Coverage of Covid-19 Vaccination Drive





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