

LARSEN & TOUBRO
Public Charitable Trust



Giving Communities
the Technology Edge

Annual Report 2018-19

The Next Billion users will not adapt to technology.
Technology will have to adapt to them.
- Part of Google's 'Next Billion' Strategy

This is the power of the next wave of people on the verge of crossing the cusp between the developing and the developed; the underserved but hugely deserving population, set to breach the barrier between being simply a beneficiary into becoming a value-adding member of society.

We, at LTPCT, can relate to this phenomenon. The unique perspective that we have developed over the last 16 years of serving society, gives us a deep insight into what India's grassroot needs are. That is why over the last year, we have worked on integrating technology into our solutions in a 'community-first' way. In the following pages, you will see some of our past successes that we hope to build on to create an even brighter future for all.

To us, technology is both a catalyst and a connector to drive the convergence of people, strategy, processes, communities and stakeholders. Powered by this convergence, we mobilise stakeholders and ecosystems to deliver a better quality of service with greater impact.



Table of Contents

Chairman's Message	1
Board of Trustees	2
About Us	3
Our Vision and Mission	4
Areas of Intervention	4
Programmes	
■ Vidyaa – Education	5
■ Jeevan – Water & Sanitation	33
■ Uddyam – Skill-building	43
■ Aarogya – Health	55
Partners	69
Financial Review 2018-19	71



Chairman's Message



Dear Friends,

It is with great pleasure that I present the Annual Report of the Larsen & Toubro Public Charitable Trust (LTPCT) for the Financial Year 2018-19.

With each passing year, LTPCT has only grown from strength to strength, and it is truly encouraging to see its work impacting its beneficiaries.

Over the years, the Trust has always believed in focusing on its guiding principles of enhancing programme quality. Along with strengthening, monitoring, and reviewing, the Trust has been able to deliver result-based programming, as well as building on partnerships through meaningful collaborations with the Government, international partners, bilateral agencies and the not-for-profit sector.

In this digital age, with the easy availability of the Internet that provides access to information in the remotest parts of the country, it is only logical that everything, right from education to capacity-building will be amplified using online resources. LTPCT partners with and inspires several influencers ranging from leaders to frontline service providers to ensure that all beneficiaries have access to technology, so that they can grow and develop into inspiring citizens of the country.

This year, LTPCT has continued and heightened its collaboration with stakeholders and various organisations to provide services for communities that are in need. Using technology as a catalyst, LTPCT has worked towards creating a greater impact by enhancing processes and improving service quality. The year also witnessed a

stronger partnership with SAP India, which has adopted 81 schools in the Navsari district and 15 schools in Surat, with an aim to improve digital infrastructure and harness local human capital to build a stronger digital eco-system in schools. This is in addition to 43 schools in the tribal region of Talasari. Today, this collaborative effort is reaching out to 38,000 students across 2 states.

LTPCT recognises that investment in agriculture is the best weapon against hunger and poverty. They have already uplifted the lives of millions of people while doubling their efforts to improve the lives of many more. Without access to modern farming techniques or machinery, farmers' livelihoods hinge precariously on a changing environment that they are struggling to understand. LTPCT has forged a partnership with UNDP for an ambitious project towards touching the lives of 30,000 farmers in the tribal block of Talasari in Maharashtra. We understand that science and technology, coupled with improved human capital have been powerful drivers of positive change in the performance and evolution of smallholder systems. The team on the ground, is working to make technology forge a connection with the community.

I would like to thank all our partners and my fellow L&T-ites for their continued faith and support in the Trust and look forward to another year of helping India unlock its true potential, through consistent community development.

A.M. Naik
*Group Chairman, Larsen & Toubro Limited
And Chairman, Larsen & Toubro Public Charitable Trust*

Board of Trustees



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*Group Chairman, L&T
Chairman, LTPCT*



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*Programme
Coordinator (Talasari)*

About Us

Larsen & Toubro Limited (L&T) is a multi-billion-dollar conglomerate, engaged in technology, engineering, construction, manufacturing and financial services. Its global operations extend across India, GCC, South East Asia and the UK, with a supply-chain spanning five continents. Headquartered in Mumbai, L&T is one of the largest and most respected companies in India's private sector.

Larsen & Toubro Public Charitable Trust (LTPCT), established in 2004, has been undertaking philanthropy-based programmes to create a better world for those sections of our population that are at a disadvantage due to marginalisation. Structured employee contribution and volunteering for social betterment makes LTPCT unique in the not-for-profit sector. With collective impact as the driving force behind the Trust, many ambitious ventures have been implemented, transforming a number of lives in the process. Unlike other charitable trusts, LTPCT benefits from the committed support and in-house expertise of the various L&T companies in the areas of engineering, architecture, construction, IT and medical services.

In 2011, LTPCT identified education, health, skill-building and water as the areas for intervention, with education

being the starting point to bring about transformation. Convergence of local communities, Panchayati Raj institutions, NGO partners, corporate and Government bodies at every level, has allowed LTPCT to expand on-ground operations to:

66 Projects

555 approximate Locations

7 States

7,00,000 and more lives impacted

Continuously evolving, LTPCT is now focused on process efficiency, results and impact on society.

The first Comprehensive Community Development Programme is being executed at Talasari, a tribal block in Maharashtra, where the Trust's intervention in education, skill-building, health, water and sanitation is in operation. A multi-sectorial intervention with an integrated development approach, the Programme is striving towards transforming villages in Talasari block.



Our Vision and Mission



VISION

Larsen & Toubro Public Charitable Trust would facilitate visible and sustainable development of society through well-directed activities in the fields of vocational training, water management, holistic development of children and health-care.



MISSION

- Providing access to quality education for underprivileged children
- Creating opportunities in skill-building for unemployed youth and women
- Providing access to healthcare through awareness building and necessary treatment
- Creating irrigated land, appropriate use of water and improved sanitation

AREAS OF INTERVENTION



GUIDING PRINCIPLES

- Focus on enhancing programme quality
- Strengthen monitoring, review and result-based programming
- Promote partnership and collaboration, leading towards sustainable development

CROSS CUTTING THEMES

- Technology to the last mile
- Creating social infrastructure
- Gender equality by promoting women's participation



"Education is the key to success in life and teachers make a lasting impact on the lives of children. At Larsen & Toubro Public Charitable Trust, our efforts have been to reach out to remote areas to strengthen the existing education system to improve learning outcomes by involving and coaching the teachers. We have made substantial progress in establishing early child education and providing access to digital learning. We shall continue to build the programme further to touch the lives of many more children and teachers in the days to come."

M.T. Madhavadas

Senior Vice President, Head PT&D, L&T

And Trustee, Larsen & Toubro Public Charitable Trust

Our Synergy with the United Nations Sustainable Development Goals



Education that Matters

The Right to Education (RTE) Act has helped children from low income families receive free and compulsory elementary education. Despite the expansion of the Indian education system, learning outcomes and knowledge retention continue to be a deterrent for several children, especially those from marginalised communities. Tribal populations in particular, fraught with socioeconomic, cultural and geographical barriers, are adversely affected. The central goal of LTPCT's Education Programmes is to address social disparities and ensure equitable access to quality education, especially for adolescents and tribal children.

Initiated with the vision to improve learning outcomes for underprivileged children, Project Vidyaa works across the life cycle of a school-going child, from preschool to secondary school.

The programme interventions are focused on:



nurturing cognitive and learning abilities during the early years of childhood



strengthening learning levels for primary, upper primary and secondary school children.

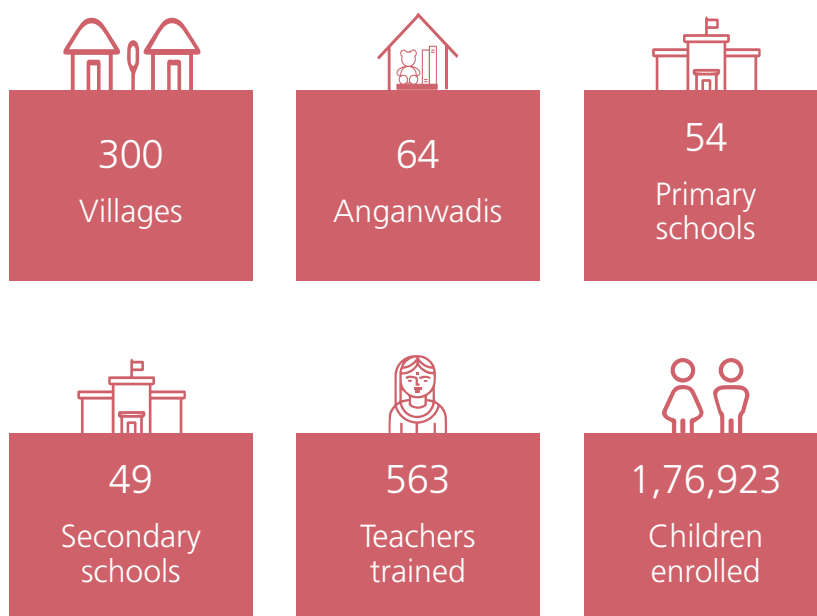
The programme builds on the innate ability of children that fosters a child's overall development through a range of learning opportunities.

This approach enhances their academic performance and life skills. The project's investment in human capital is an integral strategy for the success of the programme. This can be seen in the skilled cadre of teachers, mothers who actively participate in their children's education, and engagement of volunteers in remote tutoring.

The financial year 2018-19 also witnessed innovation and technology in the existing programme that improved access to quality education across the block.




While technological innovation is not a new idea in itself, LTPCT's focus has been to converge communities through the use of technology. This has led to improved access to quality education and digital literacy in two states—Maharashtra and Gujarat.

Our Reach



Programme Conceptual Framework

Challenges

-  Inadequate access to quality education
-  Limited availability of trained teachers
-  Gaps in digital and physical infrastructure

Effects and implications

- 1 Lack of holistic development in the child
- 2 Low retention of students in upper primary and secondary classes
- 3 Poor learning outcome amongst children across all ages
- 4 Limited access to innovation, science and technology in rural areas



Strategic approach

Comprehensive approach to transforming the education ecosystem by strengthening it; creating educational and digital infrastructure at multiple levels



Early
childhood
3-6 years



Primary
school
7-11 years



Upper Primary
school
12-14 years



Secondary
school
15-16 years



Programme interventions



Early Childhood Education Programme

Ensuring development of socio-emotional, cognitive and motor skills among 3-6 year olds, to prepare them for schooling and learning



Improving learning outcomes

• Remedial Learning Programme

Enhancing Language and Mathematics learning levels for students in Classes 1-7 through advanced competency camps

• Community Library Intervention

Vibrant learning spaces such as community libraries to encourage group learning and studying through peer support groups

• Remote Tutoring

Mobilising volunteer tutors to enhance students' proficiency in the English Language



Science Education

Sparking curiosity, nurturing creativity and instilling confidence in Science, among students in Classes 5-10



Digital Literacy

Reducing disparity in digital education for students in Classes 1-12, local youth, and communities



Sports for Excellence

Promoting holistic development of students in Classes 8-10, through sports in schools

Multi-pronged approach



Comprehensive childhood and adolescent development across different age groups



Capacity building of teachers for effective engagement and knowledge retention among children



Integration of technology and data analytics for delivering quality education



Sustaining impact through collaboration with Government, civil society, private sector and community



Creating educational and digital infrastructure

Early Childhood Education Programme



Early childhood—a time for remarkable growth and cognitive development—when the foundation for social skills, self-esteem, perception of the world, and a moral outlook is established in children. While supportive families, adequate nutrition, and healthcare play vital roles, the presence of favourable educational policies and social infrastructure largely affect a child's overall development. Early childhood education also positively impacts the attendance, retention, and learning abilities of children in elementary and secondary schools. Investing in a child's growth and development during early years, has proven to strengthen the foundation for lifelong learning.

Recognising the long-term effects of education in the formative years, the Early childhood education programme ensures development of cognitive, socio-emotional and motor skills of 3-6 year olds. The underlying philosophy of the programme lies in building a conducive environment within the household as well as the community at large. Skilled workers appointed by Pratham educate the children at model Anganwadi centres. Mothers are engaged to become educators as they play a crucial role in influencing learning levels of children outside the Anganwadi centres. Through context-specific teaching modules and interactive games, the learning experience for children is made more fun and engaging.



Intensive mother engagement

Mothers are encouraged to actively participate in their children's learning experience and are equipped with simple techniques that can enhance learning even at home.



Capacity building of Anganwadi workers

Anganwadi teachers are trained using contextualised teaching-learning methodologies for delivering and sustaining quality education at the Anganwadi centres.



Introduction of number and letter recognition games

Skills in early numeracy and literacy are delivered through interactive group activities and games. From counting chappatis and rice grains to jumping into circles marked with different alphabets, diverse methodologies are used to help children recognise numbers and alphabets.



Context-specific teaching-learning material

Taking into consideration the presence of multiple dialects in Talasari, customised teaching-learning material such as local folklore and songs is curated to enhance the quality of learning among children.



Consistent community engagement

In order to engage members of the Panchayat Samiti, parents and community elders participate and take ownership of their children's education, while periodic events such as Maths education fairs and events during festivals are organised at the community level.



Stakeholder engagement

To inspire systemic change, Project Vidya consistently engages with all key stakeholders in the early childhood education ecosystem—Anganwadi Supervisors, Child Development Project Officer (CDPO) and the Block Development Officer.



Data analytics

Using data analytics, high-quality evidence is generated to strengthen Block level planning, assess systemic gaps and complement existing Government surveys. The emphasis is on using data effectively to implement change, reward quality performance and motivate community workers.

Programme outcomes



1834

Children provided with early childhood education



170

Mothers' groups formed



64

Anganwadi Sevikas trained

Learning outcomes in 25 model Anganwadis

Children are taught by specially-appointed teachers using Pratham's teaching-learning methodologies and material. These model centres are closely monitored and supported by Pratham's cluster resource leaders during the course of the intervention.

99%

of children: progress in matching and sequencing

53%

of children: progress in number recognition

61%

of children: progress in alphabet recognition

93%

of children: progress in fine motor skills

97%

of children: can introduce themselves

Such progress is especially noteworthy, given the general context of the geography.



Partnerships



Child Development Programme Office, Talasari block

A valued Government partnership for the Early Child Education Programme at Talasari



Implementation partner: Pratham Education Foundation

Pratham Education Foundation is India's largest Non-Governmental Organisation (NGO), providing early childhood and elementary education to underprivileged children across India. Active in 19 states, Pratham Education Foundation impacts three million children annually in both rural and urban areas. The Foundation works closely with schools, Government stakeholders and communities, supported by a trained cadre of grassroots workers.



CASE STUDY

'Digitalization' empowers a rural mother to 'teach' her child!



All the videos are interesting and I have learnt so much from them. I am happy to play an active role in laying a strong foundation for Sahil before he enters formal school. I look forward to using the tablet with my group-mates.

Lakshmi Dinesh Masmar, a home-maker and a resident of Dolar Pada, Girgaon Gram Panchayat in Talasari, belongs to a mothers' group named 'Pragati'. The number of home visits by the Anganwadi worker to Lakshmi's house, has reduced drastically with the introduction of digital tablets. As she looks forward to the group sessions, Lakshmi makes herself available on time along with her children.

She is able to actively contribute to her son Sahil's learning curve with the help of simply learning activities like counting and story-telling which are available as videos on her tablet. Sahil is able to recognise both double-digit numbers as well as two-letter words with ease.

The digital tablet has also triggered a lot of curiosity and interest. As the content is very engaging and simple to understand, Lakshmi is eager to explore further. Regular engagement with the tablet has helped Lakshmi become more comfortable with handling digital devices. She is always keen to explore games, watch videos on nutritional recipes, and conduct learning activities for her children. Dinesh, her husband, has also witnessed the growth in his son's learning capabilities, and is proud when his son confidently introduces himself.

Sahil's teacher at the Anganwadi centre is grateful for the mothers' group. A once shy child without any enthusiasm to participate in class, Sahil is now an active student who copies notes from the board and completes his lessons on time. Technology has brought in a new wave of enthusiasm in Lakshmi and many more mothers like her in the community, creating a culture of learning and sharing in various ways.



CASE STUDY

Making Anganwadis safe and fun at the same time!



My Anganwadi centre has become even safer and better now. I can easily focus on ensuring these children have a good time.

For Parvati Dhodiya, an Anganwadi worker from Kochai Vadipada, running the centre was not easy when she started. Her Anganwadi centre did not have a separate kitchen.

Constrained with lack of space and left with no choice, her team cooked in the same area where the children played. Managing a kitchen within the play area was difficult and extra caution had to be taken to ensure that children did not get hurt.

Identifying the need, Larsen & Toubro Public Charitable Trust constructed a dedicated kitchen space in the same premises along with a separate space for children to play. The centre was renovated to include a child-friendly play area with cartoons painted on the walls. The newly-renovated and attractive Anganwadi centre has improved attendance.

Remedial Learning Programme



The transition from the primary education to the secondary education system is a crucial phase where learning levels shift from basic foundational skills to advanced competencies. While students in Classes 1-3 require regular engagement and interaction to ensure their abilities are well-developed, the upper primary segment requires building an environment that is conducive to group learning.

The Remedial Learning Programme organises 30-day Learning Camps for students in the primary segment (Classes 1-3) and upper primary segment (Classes 4-8), to help those who are lagging behind in studies, with remedial lessons in Language (Marathi) and Mathematics. These Learning Camps help students take ownership of their learning in a peer-supported environment.



Early learning for children in classes 1-3

The foundational skills of students are strengthened so that they understand educational content delivered to them in higher classes.

Light activities are conducted to build phonological awareness and enhance oral skills in children, to improve their reading abilities. In Mathematics, the focus is on building number recognition skills in children and helping them solve basic arithmetic problems.



Read India advanced intervention for children in classes 4-8

The activities conducted in this Learning Camp help students acquire deeper comprehension of the subject, encourage discussions, analysis of inferences and application of knowledge to different contexts.

Learning goals also include better understanding of vocabulary and written expression of thoughts and opinions. Children are given home assignments and worksheets to keep them engaged in the learning process.

Learning progress



7894

Children from primary and upper primary classes reached

Classes 1-3

84% of children: can solve addition numerical orally

72% of children: can solve subtraction numerical orally

Classes 4-5

80% of children: improved in comprehension ability

77% of children: could recognise synonyms

92% of children: improved in writing skills

Classes 6-8

83% of children: improved in reading comprehension ability

88% of children: improved in sentence comprehension

82% of children: improved in vocabulary

↑ 7% increase in students' ability to read owing to mothers' involvement in the learning process.

↓ Significant reduction in the dropout rate of students in the beginner level from 32% at baseline to 6%

All figures above represent a significant improvement from baseline



Community Library Intervention



Lack of access to public libraries in remote tribal areas makes it difficult for children to read outside school. Learning accompanied by reading habits reinforces the students' interest in academics and improves their knowledge about the world they live in. Community libraries provide literature and an open space for children to think, question and evolve.

The Library Intervention Programme has been instrumental in promoting group learning and community involvement in the education of students. Created to inculcate a culture of reading and promote studying among children, the community library has further enhanced and sustained the learning capacities of students, thereby resulting in a positive change in their academic performance. The programme also enhances the impact of activities conducted in learning camps. Active involvement of siblings, parents, teachers and village leaders help cultivate better reading habits among the students.



Formation of library groups

Students from Classes 1-3 are actively engaged in studies after school hours. Facilitated by Cluster Assistants, library groups help students access new books, perform reading exercises and complete their homework. Children enjoy learning in groups and are comfortable answering each other's queries related to their homework.



Community participation

Parents are encouraged to facilitate formation of library groups and help children resolve their doubts. Support from different community stakeholders has nurtured the development of study habits among students and their younger siblings.

Programme reach



55 Hamlets



305 Active library groups



2351 Students reached



I can see a difference between children who are part of this group and the ones who are not. While other children are quite shy and run away when they see an unknown person coming to interact with them, those children who are part of the library group can face an outsider without fear.

Vijay, from Zari village, has always seen children play after school hours. However, with the introduction of the Community Library Intervention Programme, he has witnessed the rise in evening study groups which has greatly impacted his daughter's academic performance. Impressed by his daughter's accomplishments, her teachers from Kasturba Gandhi Balika Vidyalaya Secondary School have always wondered about the secret of her success, to which she proudly replies, "I am a part of a study group formed in my village."

This has been the reaction of almost every child who has been a part of the library group. Every library group serves as a coaching class, monitored by a cluster resource leader, who provides inputs on addition, subtraction, reading, writing, communication skills, etc. Digital tablets preloaded with learning applications and worksheets are also provided during the study sessions. Children work in groups and help each other, making the learning process easier.

As part of the School Management Committee of his village, Vijay frequently interacts with school teachers to collect feedback on the students' language and mathematical skills.



Remote Tutoring



Across India, 140 million students are enrolled in Government schools; however, 82% of students, particularly from marginalised communities, cannot read simple English words. In Talasari - an education backward block with a literacy rate of 44.8% - English language proficiency of teachers is inadequate. Consequently, students from upper primary and secondary schools generally lack the ability to read and write in English. Insufficient exposure to the language during their formative schooling years has limited the participation of tribal children in higher education. It hinders them from pursuing professional careers, thus impacting their aspirations for a better life. Recognising the need for a novel solution to bridge the existing gap in English learning levels, the Remote tutoring programme was launched as a pilot for students of Classes 4-9, in Aarajpada, Talasari.

Over a mobile phone, each student is introduced to a proficient English speaker located remotely in cities, and tutored on pronunciation, punctuation, intonation, sentence comprehension and English vocabulary; thereby employing technological tools for English reading and speech improvement. In the pilot phase, 60 students were paired with 120 volunteers, to help students graduate to the next level of reading proficiency and reduce their fear of English as a language. The volunteer and student have the same story text on their respective mobiles, where the student reads out a passage and the tutor corrects the student's pronunciation, punctuation and comprehension.



Engaging volunteers in the learning process

Considering the limited availability of trained English teachers in Talasari, this programme mobilises volunteers—homemakers and youth, as remote tutors. Volunteers are connected with students through mobile phones, and English reading lessons are delivered remotely.



Deployment of technology

To simplify the logistics of content distribution and facilitate distance learning, two technological platforms were a web platform hosted on the domain www.readastory.org.in and the cloud telephony platform.

Once the volunteers are sensitised and inducted into the programme, they are assigned log-in credentials through the web platform. The

system maps each volunteer with a student. Lessons are conducted through the platform, where reading content is digitally uploaded for the volunteer to access.

Volunteers schedule calls with the students through the cloud telephony platform—an online communication technology that is hosted on the cloud through the Internet. Support from the cloud allows placement of calls from any location without the need for additional equipment.



Reading levels assessment and evaluation

The advancement in language skills is measured using an assessment tool derived from the ASER 2017 English evaluation protocol, that evaluates the progress in reading levels of each student.

Reading Levels:

Beginner

Limited knowledge of alphabets

Level 0

Clarity on alphabets and simple words

Level 1

Simple sentence formation

Level 2

Compound sentence formation

Level 3

Paragraph construction

Level 4

Reading comprehension

Partnerships



Implementation partner: Read a Story

Ideated and implemented by philanthropist Mr. Amod Joshi with the support of LTPCT



Social Lens Consulting Pvt. Ltd.

Develops customised solutions using technology for monitoring and programme evaluation.

Reading outcomes

Progress in learning levels

81% Students progressed by at least one level

36% Students progressed by two levels

5% Students progressed by three levels

English proficiency levels accomplished

↓ Significant reduction in Level 0 and Level 1

↑ Major leap in Level 3 and Level 4

36% Students in Level 2

39% Students in Level 3

7% Students in Level 4



Girls: mostly advanced by one level

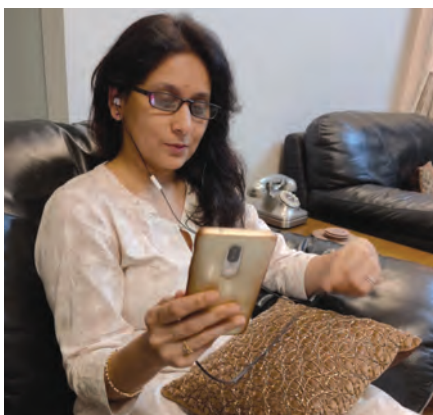


Boys: mostly advanced by two levels



CASE STUDY

An early intervention motivates a child for life!



I was curious when I heard my friends speaking in English over the phone. I began to love reading from the day my brother and I enrolled in the programme.

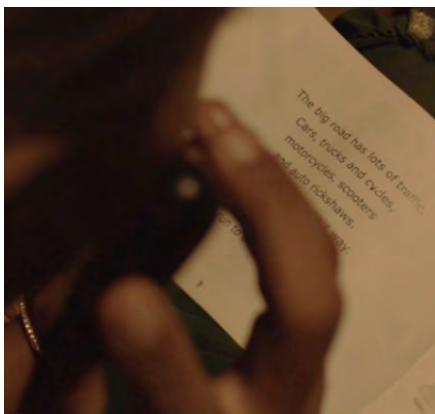
For Amisha Dilip Dhodi, a Class 7 student studying in a Marathi medium school, English was not a favourite subject. While Amisha excelled in Marathi and Hindi, English continued to remain challenging. Amisha's curiosity in the language was sparked when she witnessed her schoolmates speaking fluently in English and using words that were completely new to her. Excited to learn by reading storybooks, Amisha and her brother Kian registered in the Read a Story programme. From reading stories to regularly interacting with her teacher over the phone, Amisha has come a long way in speaking the language.

Today, Amisha and Kian learn English regularly and understand pronunciations, words and sentence formation very well. Both cannot stop reading at home as well as in school. Amisha looks forward to becoming a teacher and influencing children to study.



CASE STUDY

A student's zeal inspires Archana to be a teacher!



I enjoy teaching Roshni, a committed student, eager to perform better with every new book. Teaching Roshni has been a very rewarding experience and watching her progress from Level 1 to Level 4 has been absolutely delightful.

Archana Patwardhan, a volunteer, has been working with Roshni, under the Read a Story programme for the past one year. While Archana was initially hesitant to teach remotely, Roshni's sincerity and enthusiasm to learn motivated her to help the girl excel.

Archana conducts 45-minute sessions twice a week, where books are read word-by-word to begin with, and then sentence by sentence. On reaching Level 2, Roshni was asked to look up the dictionary to learn five new words every day to improve her vocabulary. Archana's approach of connecting with Roshni on a personal level has accelerated her learning process. Going beyond the reading and trying to relate the stories to Roshni's day-to-day life whenever possible, has kept her hooked to the activity.

Science Education



Science takes a central place in school education. From instilling a scientific approach to thinking, to inculcating attitudes of reasoning and problem solving, science as a subject has been beneficial in shaping young minds. However, public schools in remote rural areas often lack well-equipped science facilities and cannot offer field trip opportunities like urban schools. Also, science teachers have less access to professional learning workshops in these areas. The Science Education Programme was therefore launched to provide underprivileged children with practical exposure and hands-on education to stimulate interest in science as a subject.

Specifically designed for economically disadvantaged students and teachers from rural areas, the programme endeavours to inspire students to think, investigate, experiment and discover science in its entirety. Government schools have limited capacity in experiential science that helps spark curiosity and creativity among students. Keeping that in mind, the Science Education Programme strives to bridge this gap through a Hub and Spoke model of engagement.



Hub and Spoke model

Hub: Science Centres

100+ science experiments and models on Physics, Chemistry, Biology, Ecology and Astronomy are delivered to students and teachers from surrounding neighbourhoods.

Spoke: Mobile Labs (science on wheels)

Students and teachers from remote areas are provided access to teaching material, models, videos and other instructional aids on a wide range of topics in Physics, Chemistry and Biology.



Teacher training programmes

Capacities of teachers and young instructor-leaders (student mentors), are strengthened in creative thinking, problem solving and practical application of scientific concepts.



Knowledge dissemination and learning in the community

Summer/winter camps: Workshops for students to create models and experiments on scientific concepts

Night community visits: To generate awareness among parents and the community on science as a subject

Science fairs and competitions: To motivate students to become instructors and present their scientific knowledge and experiments to peers, teachers and visitors



Partnerships



Implementation partner: Agastya International Foundation

Established in 1999, Agastya International Foundation (Agastya) is a charitable education trust that runs the world's largest mobile hands-on science education programme for economically disadvantaged children and teachers. Through its programmes, Agastya aims to transform and stimulate scientific thinking among its beneficiaries.

Scientific exposure

Programme reach



5 States



220 Schools



477 Young Instructor Leaders

13 Mobile Labs



2,45,790 Student exposures



722 Teachers participated in training programmes

3 Science Centres



8,161 Schools covered



320 Teachers participated in training programmes

27 Summer camps



10,455 Student exposures

Science fairs



33,525 Student exposures



CASE STUDY

The love of science cures a girl of shyness for life!



I have overcome my stage fear completely since I have the right knowledge to speak in class about Science. I love teaching my friends and helping them with their doubts.

A Class 7 student, Dipti, is a beneficiary of LTPCT's Science Education Programme at Ahmednagar. Deeply impacted by lessons on different scientific phenomena, Dipti eagerly follows what is taught in her classes.

Peer-to-peer learning has particularly resulted in significant transformation where Dipti, a once shy girl now confidently interacts with others as well as helps her friends learn. From natural resources and sound, to liquids and gases, Dipti enjoys learning as she can retain knowledge better when learning with proper examples and hands-on experiments. Her thinking and practical application abilities have improved tremendously to the point where she can now prepare illustrative models on any given subject. The Science Education Programme has helped a shy girl blossom into a confident student who is excited to participate and learn new things with her friends. Enabling her to face her fears, the programme has inspired Dipti to become a Police Officer when she grows up!



India is estimated to become an economic superpower in the near future, the youth who is impacted by globalisation and digitalisation, is expected to benefit the most from the country's economic progress. In a country where more than half its population are living in rural and remote areas, digital literacy is almost non-existent. Similarly, for students residing in Talasari and Navsari, poor classroom infrastructure and shortage of trained computer teachers have resulted in a lack of access to digital education. While the Government has launched the Pradhan Mantri Gramin Digital Saksharta Abhiyaan for rural beneficiaries, the residents of Talasari and Navsari are yet to become a part of Digital India.

The Digital Literacy Programme solves the existing digital divide through the joint partnership of LTPCT, SAP India, Pratham Infotech in Talasari, Hope Foundation in Navsari and the education departments of local Governments. Setting up of computer labs and community-level digital literacy classes has enabled students, their teachers, and the community as a whole to gain knowledge and practice in computer technology. Quality training, digital inclusion and e-learning delivered to the last mile to students, teachers and the community, have given rise to a digital movement in these tribal areas.



Classroom infrastructure for effective digital learning

Well-furnished computer labs and courses on computer technology are integrated within the school timetable, to build a digitally friendly school infrastructure.



Skilled computer trainers—Sancharaks

Integral to the development of a digitally literate generation, local youth from the community are identified and trained to impart computer education. The cross-cutting nature of the programme has thus resulted in not just digital empowerment of local youth, but generating employment opportunities for them as computer trainers.



Community digital literacy

Community Service Centres (CSCs), have provided villagers with access to Government information services. Community level digital literacy classes are organised to help villagers understand the advantages of using a computer to obtain information.



Partnerships



Funding partner: Code Unnati programme - SAP India

The global leader in technology software, SAP India provides technological solutions to organisations across industries to help them achieve their vision. SAP helps organisations tackle the world's biggest challenges through innovation and technology. LTPCT partnered with SAP India to roll out Code Unnati programme in Maharashtra and Gujarat.

Implementation partners:



Pratham Infotech

Partner in programme on digital inclusion of students from the Talasari block



Hope Foundation

Partner in programme on digital inclusion of students from Navsari district

Digital footprint (FY 2018-19)

Programme reach



200

Local youth trained



132

Computer trainers



37,452

Students with access to digital education

Talasari



37

Schools covered



46

Villages

Navsari



25

Schools covered



25

Villages

2019-20 way forward

Replicating the Talasari digital literacy model:

81 schools: Navsari, Gujarat

30 schools: Surat, Gujarat

Enhancing skill level and employability by introducing vocational education in schools.





I had very basic information about computers, but thanks to this programme I am able to use a laptop. Today, I use Excel, Word, and even Paint. Using Corel Draw for a project has been my biggest achievement.

Meet Chaaya Ravidas Dubala, a Class VIII student studying at V.K. Lakhani School. Life wasn't smooth for Chaaya's family. Her parents who had dropped out of school due to abject poverty, have tirelessly worked to ensure their children were given a chance to study.

Given her upbringing, it was no surprise that Chaaya had very little knowledge about computers and was only vaguely familiar with technology. Privileged to be introduced to the world of computers, when the Computer Aided Learning and Digital Literacy Programme were launched, a then Class 6 student, Chaaya was mesmerised to find something new and different.

Two years later, Chaaya has evolved and is now an active user of computers. Today, Chaaya can even access the Internet for information. The programme has helped Chaaya realise her aspiration and career goals. Her dream is to pursue Information Technology and the enthusiasm on her face is quite infectious.



I am very happy with the programme. The teachers have been very helpful and competent. Our students are extremely grateful for this opportunity.

An opportunity to work with computers was a dream come true for the students from SMT NSG Kanya Vidyalaya Ankalachh School, Navsari. The students, who were completely unaware of the usage of computers, were provided basic knowledge of the same and were also tutored on essential computer applications.

The students were so eager to learn and practice that even lunch breaks could not stop them from visiting the Computer Labs. Specially trained computer teachers were allotted to teach the students. Mr. Jayeshkumar Kantilal Pavar, the school principal, was happy to note that his school's reputation has grown considerably since the introduction of computer education. The programme has also seen a significant increase in the number of school enrolments post the initiative.



E-learning brings lessons to life in the classroom



With the help of this software, I can memorise all the historic characters easily and their importance in history. I never get bored to study and can prepare more chapters in less time.

Class 10 student Priteekumari Patel from Shree B.H. Patel Sarvajani High School, Tankal, Navsari is a history buff, captivated by legends from the past! History lessons have now become more fascinating for Priteekumari owing to LTPCT's e-learning software. Visualisation and comprehension of subject matter in History, Mathematics and Social Sciences have improved tremendously. The software has particularly helped Priteekumari in Science as she can understand theory better after watching videos.



Sports for Excellence



Sports does not only build physical stamina but also instils character by helping develop qualities such as obedience, determination, willpower and discipline. From a health perspective, participation in sports reduces mental stress, enhances physical strength and stamina, improves sleep, and lowers risk of obesity. Sports education also promotes hygiene and sanitation. The abundance of sporting talent in tribal areas, and the interdependence of sports with development of social skills, necessitates the inclusion of sports in tribal schools to build competent and confident athletes and sportspersons.

The Sports for Excellence Programme, initiated in 2015 to cultivate a sports ecosystem among tribal youth, provides systematic training, expert guidance, and higher order coaching for children to improve their sports performance. Through the programme, tribal children are introduced to a healthy lifestyle and taught the importance of outdoor activities. Recognising the existing talent among tribal children aged 12-18 years, Athletics, Kabaddi and Kho-Kho are the chosen sports to offer aspiring students with an opportunity to perform at the district, state and national levels.



Introduction of sports curriculum to serve as building blocks for future sportspersons

Coaching sessions are organised to develop students' abilities in technical, tactical, physical and psychological aspects of sports. Students are encouraged to participate in external and internal sports tournaments organised by the Integrated Tribal Development Programme, Mumbai University, Sports Authority of India, local organisers and many more.



Building self-confidence and discipline, resulting in a decrease in absenteeism

The programme uses games to educate children about gender equality, health, and key social issues. The games are designed for development of personality and socio-emotional skills to instil a positive attitude and enhance positive behaviour among students.



Creating a pool of talented coaches, physical trainers and sports facility operators

Physical education teachers are trained to become effective coaches and help students excel in sports. Students are mentored and counselled on career opportunities as sports players and coaches; resulting in increased knowledge and access to potential employment opportunities.



Partnerships



Implementation partner: Magic Bus India Foundation

Since its inception in 1999, Magic Bus India Foundation has been working with children and adolescents in the age group of 12-18 years, equipping them with life skills essential to grow and move out of poverty. The organisation's mission is to help children complete secondary education and provide young people with employable skills.

Sports impact



23

Schools



5

District-level athletes



18

School teachers trained



434

Students



35

Athletes qualified
for state level





My trainers have helped me become disciplined, health conscious and goal oriented. I am grateful to my family and teachers for believing in me.

Sabina Nathya Dadoda Laxmi, a zealous athlete, has been participating in tournaments since Class 6. Winner of a 2 km running race at the age of 11 and an enthusiastic participant in Kho-Kho and other sports events, the young girl's talent was recognised by her high school headmaster and teachers. With her family's unconditional support towards helping their daughter achieve her dreams, Sabina has undergone coaching to become a highly skilled runner.

Today, Sabina has won multiple awards and is now a district level athlete. With perseverance, dedication and continuous training, Sabina's goal is to win state level competitions.



Every day, I used to travel from my house to the school ground for more than an hour, practising day and night continuously for 5 days to win the competition. I hope to continue winning more competitions in the future.

This is the story of Jitesh Dalavi, a young boy who is both a star athlete and a hardworking student. His parents brim with dreams and aspirations for their child, eagerly waiting for him to succeed. Jitesh, a Class 9 student of the Government Ashram School, Savane, has been vigorously training to excel in sports and qualify for tournaments. From his selection and first victory in a 4 x 100 metres relay race, to winning the 2 km running race at the Thane District Athletic Association Competition, Jitesh's journey has been exemplary.

His practice sessions include regular visits to the Thakkar Bappa School ground and participation in the residential summer camp organised for aspiring athletes. His grit and determination are his strengths for success. While he looks forward to winning competitions at the state level, Jitesh is absolutely confident about fulfilling his parents' dream and making them proud.

Stakeholders Participation



Rahul Mhatre

Block Development Officer, Talasari

Larsen & Toubro Public Charitable Trust has an excellent cadre of field workers who are tirelessly working towards reaching beneficiaries at the last mile. LTPCT works closely with Panchayati Raj Institutions, NGOs, Government departments and elected representatives. LTPCT's efforts towards executing interventions in Education, Livelihood, WASH and Health will soon transform the Talasari block into a model site for comprehensive development.



Savita Daware

Sabhapati – Panchayat Samiti, Talasari

I am happy to see Larsen & Toubro Public Charitable Trust's continued efforts at Talasari, to positively impact the lives of the tribal community, especially mother and child.



Anand Jadhav

Child Development Project Officer, ICDS

I appreciate the efforts where mothers are being empowered to engage their children in development activities with locally available material. The collaborative efforts of Anganwadi Sevikas and teachers have shown significant increase in learning levels from the baseline.



Navin Dhodi

School teacher, Kawada Thakarpada ZP School

I am extremely grateful to LTPCT for the new classroom in our school. Students are always excited to attend school and study in the new classroom.

Building Capacities of Teachers

Teachers are the backbone of every education system. Investing resources towards teacher training programmes to enhance their skills is essential for delivering quality education. Capacity building of teachers for improved knowledge dissemination and sustained strengthening of the educational eco-system are the ultimate goals of LTPCT's teacher training initiatives.



Science teachers' training programme

The programme helps teachers understand science concepts, builds their skills in creative thinking and problem solving. The programme also provides solutions for creation of an engaging classroom learning experience for students.



English teachers' training programme

This is a training-cum-workshop organised for school teachers from Kharel, Navsari, to refresh their basic teaching skills in the English language and provide the latest techniques to improve the students' English language proficiency.



Mathematics teachers' training programme

Training in modern teaching techniques and presentation of model answers is imparted by Master Trainers, who have experience of working with 'Bal Bharati', are Chief Moderators and are recipients of state level awards for 'Best Teacher'. Tribal students find it difficult to clear the Board exams because of their difficulty in understanding Mathematics. It's important to build the capacity of teachers in using innovative methodologies in sync with the syllabus.



Training workshops for school teachers

'School teachers in Talasari and Navsari are given training in Digital Literacy by Pratham Infotech and Hope Foundation respectively. In Talasari, the Magic Bus Foundation runs a Sports for Excellence programme that equips teachers to identify and enhance the skills of potential sportspersons among the tribal children.'



Teachers' persistence rewarded with classrooms!



We thank LTPCT on behalf of the students, parents and the School Management Committee for the beautiful facilities that have helped so many students complete secondary school.

The Talasari Block has 154 primary Zilla Parishad (ZP) schools, 30 private/aided secondary schools and seven ashram schools. Private schools have limited seats, and are distantly located, while the transportation costs are quite high. Unable to seek admission in private schools, most students drop out after completing Class 8 from Government-aided schools. Recognising the situation, Palghar district's Education Division commissioned 12 schools to begin Class 9 and 10 batches in 2017-18.

This is a welcome step from the students' perspective. However, most schools did not have adequate infrastructure for additional batches. The school management was compelled to conduct classes within the limited capacity, which affected other classes as well.

Addressing the pressing need in the community, LTPCT constructed two classrooms each in two schools—Kawada Thakarpada ZP School and Karajgaon Patilpada ZP school, with all necessary equipment and furniture for the classes to function. Overall, 145 students in Classes 9 and 10 are currently utilising the facility this year, and thousands more will be doing the same in the coming years. School teacher Javed Pathan has personally witnessed the impact of these classrooms on the progress of education especially for girl students in the region. Parents are now able to send their children to school and completing Class 10 is no longer a challenge.

Technology as a Pathway to Learning Opportunities

The use of technology in education has gained momentum over the years. The dawn of a highly technological age with extraordinary potential, when harnessed towards helping marginalised communities, can improve access to quality education and digital literacy. Technology has amplified Project Vidya's impact and empowered communities with access to learning opportunities; thereby making a real difference for Anganwadi Sevikas, school faculty, children and their parents. From a systemic to grassroot perspective, integration of technology tools and platforms within the programme's life cycle has strengthened outputs, facilitated effective learning, enabled information exchange, and simplified monitoring.



Digital tablets for teachers appointed by Pratham Foundation

Anganwadi Sevikas are trained in computer technology and provided with digital tablets. These tablets are also used as a communication tool during interaction with mothers to provide information on health, nutrition and early childhood education.



Equipping mothers with educational tools

Digital tablets: Provision of audio-visual aids to make learning more enjoyable for the children

Idea cards: Access to a range of activities, discussion topics and an online resource of learning videos through QR codes; to support group learning, experience sharing among mothers' groups and to make their children school ready.





Connecting students with English speaking tutors

The deployment of web-based and cloud telephony platform connects students with tutors located remotely, to improve the students' English speaking, reading and writing skills.



Computer exhibition for students

1200 students from Classes 3-9, across 37 schools from Talasari, participated in a Digital Mela and showcased their learnings in computer education through model presentations.



"In India, 163 million people face a daily struggle in accessing clean water closer to their homes. Irrigated land in India is 34.5% as per the Economic Survey 2018. Larsen & Toubro Public Charitable Trust aims at long standing solutions to provide access to clean water and water for irrigation to the tribal population in Talasari region of Palghar district, Maharashtra. We motivate communities and promote local skills to develop, install and manage water security plans. We also believe that deployment of technology, coupled with improved human capital can bring positive changes in terms of access to clean water and increase in irrigatable land."

Atik Desai

*Chief Administrative Officer, Hazira Manufacturing Complex, L&T
And Trustee, Larsen & Toubro Public Charitable Trust*

Our Synergy with the United Nations Sustainable Development Goals



Water and Sanitation that Enriches Lives

Water - a giver of life, a resource in abundance yet depleting in quality and quantity at an alarming rate, has been the focus of national and global agendas since the last decade. Access to safe, clean water, a grave problem for India, particularly in rural areas, has resulted in water-borne diseases and improper sanitation. Furthermore, excess water consumption in agriculture has depleted the groundwater tables and reduced long-term availability of replenishable water resources. While the Sustainable Development Goal 6 on 'Clean Water and Sanitation' focuses on the quality, availability and management of freshwater resources, the key to clean water security lies within local communities. Sustainable management of water and sanitation is possible when Government programmes are largely supported by community ownership and participation.

Realising the impending need for interventions in the areas of rainwater harvesting and water resource management, LTPCT has been working towards mitigating the crisis in water-scarce communities in the Talasari Block of Palghar district in rural Maharashtra.

LTPCT works with Government institutions at the district, block and village levels to facilitate implementation

of water management plans that are largely demand generated at the community level.

Sustainability of the programme is enabled by:



promoting locally-owned and managed clean water security plants, and



solar irrigation facilities at the community level.

The Trust's Clean Water Programme, Solar Powered Irrigation Programme and Water Sanitation and Hygiene (WASH) initiative in the tribal schools of Talasari, has been instrumental in improving access to safe, clean water and increasing crop productivity. While farmers have gained tremendously from improved income using better agricultural practices, households have benefitted with access to clean water at their doorstep. The use of solar energy as a clean energy source for water distribution and drip irrigation, has contributed to Sustainable Development Goal 7, and reduced reliance on non-renewable energy sources.

Integration of technology has resulted in sustainable supply of water for more than two decades, and a positive impact on the environment.



Programme Conceptual Framework

Challenges



Difficult geographical terrain



Erratic rainfall



Limited availability of electricity



Depletion / run-off of rainwater



Generally, access to and availability of clean water for drinking or irrigation purposes is challenging in tribal areas after the month of March.



Strategic approach

1 Provide safe, clean water



Recharging groundwater table and wells



Increasing the availability of round-the-year water supply

2 Improve water management for irrigation and land use



Sensitisation of farmers on optimum irrigation techniques



Providing technical updates on watershed management



Improving availability of water for second crop



Connecting farmers with appropriate technology

Programme interventions



Improving access to water resources and usage:

Integrated water distribution systems



Increasing crop productivity through better agricultural practices

Solar-powered drip irrigation system



Technical assessment and data analysis of available water resources



Multi-pronged approach



Identification of hamlets through groundwater and geological surveys in consultation with local communities



Building capacity of local communities to leverage Government resources to improve access to clean water



Developing sustainable solutions with Gram Panchayat on recharging ground water table and replenishing water resources



Encouraging community ownership and partnership, from planning to system operation and maintenance



Building awareness on the importance of using water judiciously and minimising wastage

Integrated Water Distribution System



Nearly 27% of the tribal population in India does not have access to safe, clean water. Characterised by difficult terrain and distant perennial rivers, tribal women in particular have to walk long distances to fetch water from streams. Residents of Suthedpada and Bhendipada—villages in Bormal Gram Panchayat of Talasari Block in Palghar district—face an acute shortage of water. Despite construction of wells around the hamlets; drought, depleting water tables and dilapidated condition of these wells make the water inadequate and unfit for drinking. LTPCT, in collaboration with local Panchayati Raj and Government authorities, installed an integrated water distribution system to supply a minimum of 55 litres of piped water per capita per day, within a distance of 80 metres from each household.

The programme, powered by a solar pumping system and integrated with new bore wells, main pipeline, storage tank, distribution lines, water stand posts and soak pits, forms a complete solution to ensure every household in Suthedpada and Bhendipada is supplied with water. Increased access to and availability of clean water has improved the living conditions and overall health of the people, reducing the effort of fetching water from long distances. Using solar energy, water from perennial water sources is lifted, stored in tanks that are placed at a higher level and distributed to remote areas and farmers; thereby improving water supply, and reducing carbon footprint.



Groundwater survey

Surveys are conducted to identify perennial water sources, existing groundwater levels and surrounding geological conditions. Basis the surveys, spots for borewells with sufficient water yield are identified and water stand posts are constructed.



Community engagement

Locations of water source, storage tanks and water stand posts are decided in consultation with Gram Panchayat and community members. Post construction, the system's ownership is transferred to the Gram Panchayat for operation and maintenance.






Community support

LTPCT builds capacities of local communities to leverage Government resources for improving access to clean water. LTPCT supports communities by preparing technical documents for mapping water resources, and by advocating groundwater protection.






Programme impact

Improved access to clean water

	5	Solar pumps
	127	Households benefitted
	669	People impacted

Environmental impact

	7535 kg	Reduction in CO ₂ levels
	9188 kWh	Solar energy generated
	3062 litres	Diesel saved

Partnerships



Implementation partner: Gram Oorja Solutions Pvt. Ltd.

Gram Oorja Solutions Pvt. Ltd. provides sustainable and community driven energy solutions to over 1000 villages to fulfil electricity, cooking fuel and water needs for over 60,000 people. The organisation's grassroots projects have positively impacted health, environment and livelihoods of people in the community.





Collecting water used to be very difficult. Every day villagers had to wait for hours to fetch water that was not enough for everyone. But now, the stand posts close to our houses have made it very easy to collect water.

Talasari witnesses heavy rainfall every year. However, Anita Varatha, an ASHA worker from Suthedpada village, observed that acute water shortage and limited access to clean water remained a pressing problem for her village. A borewell located a kilometre away from the village, was the only nearby source of clean water. It would take Anita and the rest of the women 4-5 hours daily to wait for the water to accumulate in the borewell. Furthermore, the water supply wasn't enough for everyone. The borewell also became dry by the month of February and remained so until the next spell of rains.

Recognising the drudgery for water faced by the villagers of Suthedpada, Larsen & Toubro Public Charitable Trust initiated a Solar Energy based Water Distribution System in the village by introducing more borewells with a better water source. Involving the villagers at every step right from selection of the site to identifying locations for stand posts, the facility is now owned and managed by the Gram Panchayat.

All 78 households with a population of 390 villagers have access to 24-hour water supply within 100 metres of their homes. Collecting water has become convenient, and women no longer need to wait long hours for clean water.



Solar Powered Irrigation System



In Talasari district, 51% of the population - who are mostly subsistence farmers - lives in poverty. The livelihood of these farmers is largely dependent on rainfall led crop cultivation. Paddy (rice) is the main crop grown in the region during the monsoons, with a crop yield sufficient only for survival. Agricultural land remains unused for the rest of the year due to water scarcity. As rainfall is becoming increasingly irregular, food scarcity and poverty in the region are exacerbated. Faced with adverse conditions, farmers are compelled to migrate to urban areas in search of employment, where they are grossly underpaid. LTPCT has introduced the 'Solar powered drip irrigation system' to help farmers multiply their crop yield and plant a second crop, thereby addressing the issue of food scarcity and increasing the farmer's income by improving agriculture.

As part of an overarching, comprehensive Community Development Project, LTPCT has installed a solar powered irrigation system— combination of solar (photovoltaic) water pumps and low-pressure drip irrigation, to allow farmers cultivate high value nutritious crops throughout the year. The programme is implemented in Dolharapada, Paraspada and Valhaipada hamlets in Talasari, works directly with farmers, sensitising them on different cultivation practices and building their capacities to manage the system independently.



Water source for irrigation

The Varuli river, with a wide catchment area of 70-80 feet width and 15-20 feet depth is the water source for the system. Water pumped using solar energy directly improves yields, reduces vulnerability to changing rainfall patterns, and enables multiple cropping practices for domestic consumption.



Community participation

From participating in the need assessment, to installation of solar pumps and laying of pipes, farmers are actively involved in planning and implementation. The community also provides construction labour and tribal owned land for the project.



Programme sustainability

The system's operation and maintenance are sustained by a group of farmers. Jointly responsible for the irrigation system, each farmer deposits a certain amount in the group's bank account for regular maintenance of the pump and equipment.



Partnerships



Implementation partner: Gram Oorja Solutions Pvt. Ltd.

Gram Oorja Solutions Pvt. Ltd. provides sustainable and community-driven energy solutions to over 1000 villages to fulfil the electricity, cooking fuel and water needs of over 60,000 people. The organisation's grassroot projects have positively impacted the health, environment, and livelihoods of people.


Programme impact


Impact of irrigation

 **40** Acres of land under irrigation

 **50** Farmers benefitted

Environmental impact

 **53.2** kg Per day reduction in CO₂ levels

 **66** kWh Per day solar energy generated

 **23** litres Per day fuel saved

CASE STUDY

From barely making ends meet, to becoming a 'lakhpati'!



I am now able to grow a second crop which has helped my family a lot. My son and I are actively involved in helping farmers in the area benefit from the solar irrigation project.

Babu Thakre has spent 59 years of his life in Valhaipada, Zari, as a farmer. Paddy cultivation during the monsoon continued to be his primary source of income. Water shortage during the rest of the year made it difficult for Babu to sustain his income from alternative crops. Babu used to also cultivate vegetables, primarily for household consumption, by drawing water from the river using a diesel pump. However, the cultivation discontinued from minimal usage of diesel pump owing to rise in diesel prices.

In its endeavour to provide farmers with sustainable solutions in farming practices, LTPCT approached Babu and his villagers to assess their interest towards cultivating a second crop for additional income, using river water. Envisaging the benefits, all farmers agreed to participate in the initiative, and were provided with a solar-based irrigation system. Babu and the rest of the farmers formed a group called 'Varuli Purush Shetkari Gut', led by his son Vijay as its President.

For the first time in years, one acre of Babu's land was used for irrigation. With increased availability of water for irrigation, Babu has earned a net profit of ₹ 1,40,000 during the season.

The project's success has largely impacted the farmers' group where 5000 saplings of chilli were planted, resulting in a yield of 4000 Kgs, sold at an average price of ₹ 50 /Kg.

Enhancement of Farmers' Income through Technology

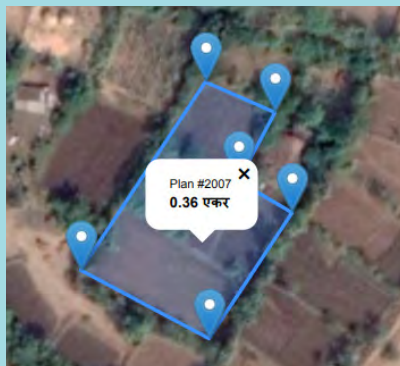


LeanAgri, a comprehensive technology platform, provides technical solutions and inputs to farmers on improving their crop yield.



GPS map with geo fencing

Technological intervention such as Geo tagging, data collection and testing dynamic parameters for nutrient, pest, disease and irrigation management will result in increased crop yield.



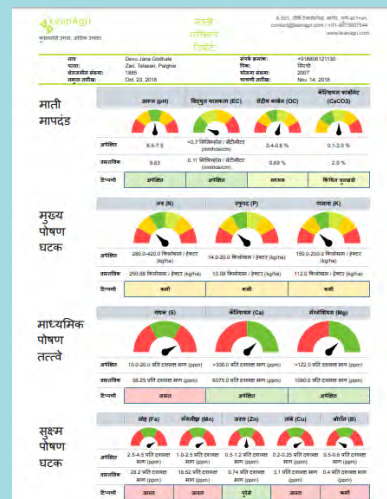
Integrated Voice Response System

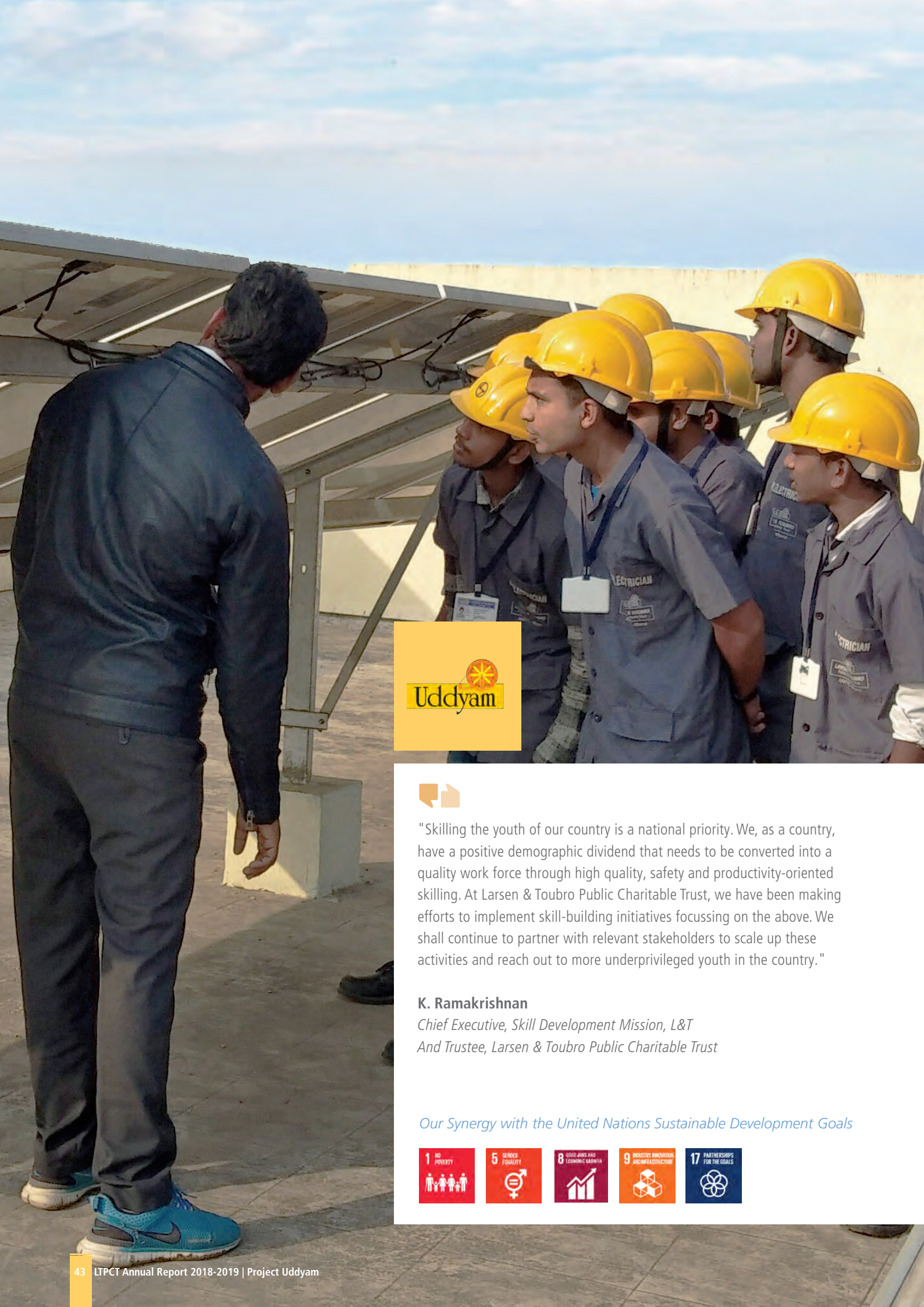
Using IVRS based counselling for farmers on sustainable farming practices and crop patterns.



Soil testing

Using technology-based data application, farmers are provided technical information on soil conditions and topography for identifying the best practices to improve crop yield.





"Skilling the youth of our country is a national priority. We, as a country, have a positive demographic dividend that needs to be converted into a quality work force through high quality, safety and productivity-oriented skilling. At Larsen & Toubro Public Charitable Trust, we have been making efforts to implement skill-building initiatives focussing on the above. We shall continue to partner with relevant stakeholders to scale up these activities and reach out to more underprivileged youth in the country."

K. Ramakrishnan

*Chief Executive, Skill Development Mission, L&T
And Trustee, Larsen & Toubro Public Charitable Trust*

Our Synergy with the United Nations Sustainable Development Goals



Skill-building that Sustains

Schooling does not assure employment, but skilling does.

India’s existing demographic dividend will be a major asset to the growing economy when effectively engaged and cultivated into skilled labour. Projected to become the largest workforce in the world by 2025, the youth of India have immense untapped potential awaiting acknowledgment and activation for the benefit of the country. Providing access to gainful employment opportunities through short term residential and non-residential skilling courses has therefore been the underlying mission of Uddyam—LTPCT’s programme on skilling and entrepreneurship.

The programme works with different target groups outside the mainstream talent pool, to facilitate income generation and livelihood promotion. Courses offered in technical trades are standardised through affiliation with the National Skill Development Corporation (NSDC). LTPCT has partnered with Dr. Mahalingam College of Engineering and Technology (MCET) for enhancement of training quality and industrial employment. Collaboration with Aroha Multipurpose Society has enabled women to pursue entrepreneurship in the tailoring and garment industry.

Recently launched courses including



Solar Technology and



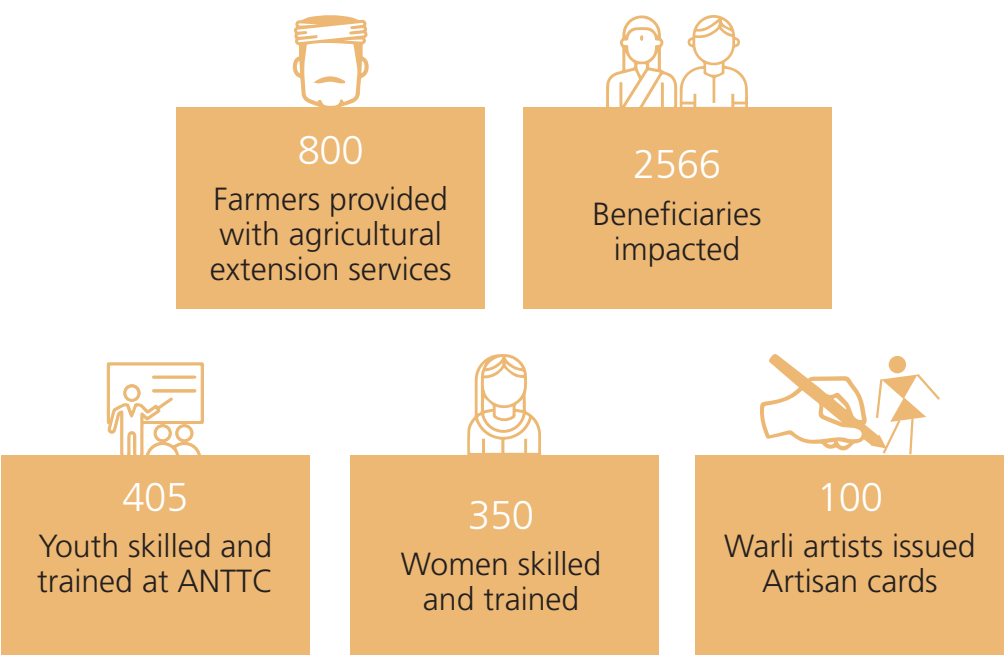
Digital Literacy

have provided new opportunities for skill development in youths who have dropped out of school.

Recognising the absence of skills among farmers to access technology, finance and market linkages, LTPCT has designed a large-scale skill-building programme for farmers from the tribal block to improve income at the household level. The programme focusses on skill-building of farmers, from improving their ability to negotiate for entitlements, to usage of technology to improve productivity, market linkages and financial planning.

The programme’s holistic focus on skilling and entrepreneurship has therefore resulted in financial, social and digital empowerment of its beneficiaries.

Our Reach

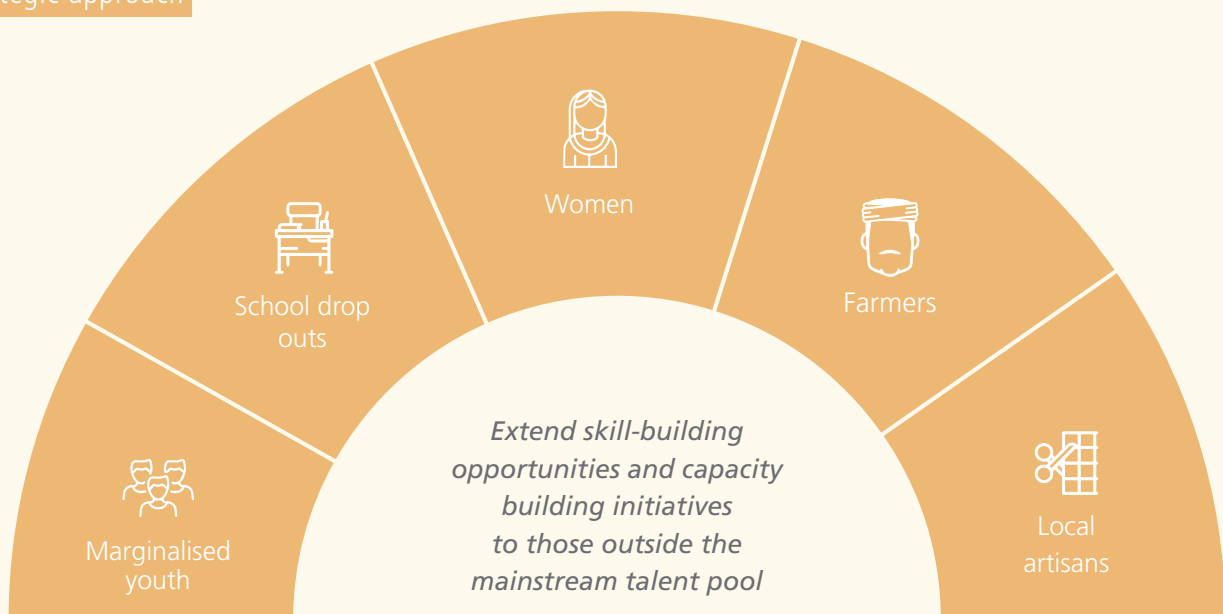


Programme Conceptual Framework

Challenges	PROJECTIONS IN 2025	CURRENT STATUS
	<div>  <p>64%</p> <p>of India's population in working age group of 15-59 years</p> </div> <div>  <p>47 million</p> <p>surplus skilled workers</p> </div>	<div>  <p>30%</p> <p>of youth neither skilled nor employed</p> </div>



Strategic approach



Programme interventions



UDDYAM – Integrated Skills Development Project, to improve income generated from agriculture, farming and agri-allied trades



Anil Naik Technical Training Centre established in Kharel, Navsari for skill development in vocational courses and digital literacy



Skilling and entrepreneurship programmes to promote livelihood for women and unemployed youth



Partnership with MCET University, Coimbatore to provide access to quality skill building for youth



Multi-pronged approach



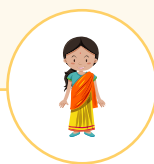
Favourable skilling ecosystem

that is enriching and opportunity-laden for different target groups



Partnership with NSDC

Standardised course curriculum in alignment with market requirements



Gender mainstreaming

to promote social inclusion and active participation of women



Innovation through technological integration

for strengthening capabilities and value addition to skilling programmes



Income enhancement for farmers and access to entitlements



Entrepreneurship development



Gainful employment for school drop-outs

UDDYAM – Integrated Skill Development Project



Project Uddyam aims to develop Talasari into a model convergence block, and is spanned across three years, benefitting 30,000 families through interventions in agriculture and non-farm sectors, and convergence with Government schemes and benefits. The project demonstrates an effective multi-stakeholder partnership between Government, Private Sector, United Nations and the community, to localise the Sustainable Development Goals (SDGs). Phase 1 of the project (2017-18) tested the model of private sector partnership with UNDP in 3 Gram Panchayats - Kochai-Bormal, Zari, and Girgaon. The second phase of the project (2018-2021) is an extension and expansion of the first phase, and aims to develop Talasari into a model convergence block, with special focus on poverty reduction for 3000 families from the areas under focus. The project has three broad verticals - Livelihoods (agriculture and allied activities), Convergence (eEntitlements), and promotion of Warli Art - dedicated to skill training and capacity building of community cadres and end beneficiaries for sustainability.



Increased income and economic wellbeing of farmers through skill-building

LTPCT promotes sustainable farming practices to improve productivity and enhance the income level of farmers. Aided by community resource persons, the programme facilitates market linkages, and encourages formation of farmer-producer groups to associate with procurement centres for sale of agricultural commodities.



Awareness and access to Government schemes and benefits

Creating a cadre of community resource persons to conduct awareness sessions on Government schemes available for tribal populations—in order to enhance

their livelihood and entrepreneurship opportunities. The programme links communities and enables submission of applications through engagement with local NGOs.



Promotion of Warli Art

Revival of Warli Art and building capacities of local artisans in productising their talent to generate livelihoods. Specialised training for local artisans on quality assurance, business development and digital literacy is provided. The local artisans are issued special identity cards as a mark of authenticity and to facilitate market linkages for product sales.

Livelihoods enabled

Farmers



14

Farmer-producer groups formed



₹ 6,17,100

Income generated from sale of mangoes



₹ 5,60,000

Income generated from sale of chillies

Procurement Centres



9

Procurement centres established



₹ 31,058

Commission earned by procurement centres

Community



54

Community resource persons



₹ 5360

Incentives gained by community resource persons



755

Individuals benefitted from access to Government schemes

Artisans



₹ 1,50,000

Additional income earned through sale of products



Partnerships



Lead implementation partner: United Nations Development Programme (UNDP)

UNDP works across 170 countries and territories towards eradication of poverty, reduction of inequalities and exclusion. Their work includes helping countries develop policies, strengthen partnership abilities and build institutional capabilities for sustaining developmental results.

Stakeholders



Maharashtra State Rural Livelihood Mission

The National Rural Livelihood Mission (NRLM) under the Ministry of Rural Development (MoRD) creates efficient and effective institutional platforms for the rural poor, enabling them to increase their household income through sustainable livelihood enhancements and improved access to financial and public services



LeanAgri Technology Solutions Pvt. Ltd. (private sector)

A comprehensive technology platform providing technical solutions and inputs to farmers on improving their crop yield



Palghar District Zilla Parishad

Elected democratic representatives of Palghar district deeply engaged in local development



Haqdarshak (civil partner)

Awareness and access to Government schemes and benefits



CMS Vrutti (civil partner)

Sustainable farming practices to increase income and economic well-being



Access (civil partner)

Promotion of Warli art

A.M. Naik Technical Training Centre, Kharel, Gujarat



Established in the year 2006, A.M. Naik Technical Training Centre (ANTTC) is a skill training institute that specifically caters to school dropouts, marginalised and unemployed youth from Kharel in Navsari district, Gujarat.

The institute offers training in a variety of vocational trades with customised skilling courses. Instituted with the vision to include youth from socio-economically backward communities into the mainstream employment pool, the training centre continues to include courses that are in alignment with the Government's mission to advance skilling. The institute has partnered with National Skill Development Corporation (NSDC) and allied partners for quality training, credible assessment and better opportunities for employment.



Technical courses offered

The institute offers courses for Auto Mechanics, Electrical Wiremen, Welders, Fitters and Solar Technicians. Course curriculum and training methodology is focused on practical and on-the-job training, with a few modules on soft skills enhancement and digital literacy.



Placement and post training support

Post training support through placements, career counselling and alumni support groups to enhance employability of youth is provided. The institute focuses largely on networking to identify opportunities for industrial collaboration and placement.

Skilling outcomes



265

Trainees skilled in technical trades



86%

Placement of trainees



40

Employer networks created



Partnerships



National Skill Development Corporation - Skill India

Partnership for skill-building at Kharel, Navsari



Funding partner: L&T Technology Services

Financial partnership for enabling employment of youth from Navsari through digital skilling



Technical Partner: NASSCOM (National Association of Software and Services Companies):

Technical partnership for Digital Literacy Programme targeting youth from Kharel

Kharel Education Society
(Implementation partner)

Anil Naik Technical Training Centre
(Implementation partner)

Gram Panchayat, school headmasters
(Local stakeholders)



CASE STUDY

Rohit's story: From drop-out to solar technician



I thank LTPCT and the institute for the opportunity to learn a new skill and work on the latest technology.

Rohit Vinodbhai Halpati, a resident of Majigam village in Navsari on the outskirts of Surat, Gujarat, hails from a lower-middleclass background. Due to financial constraints, Rohit was compelled to drop out of school when he was in Class 9. While looking for a job, his friend, an alumnus of Anil Naik Technical Training Centre, introduced him to the institute. Inspired to become a Solar Technician, Rohit showed an interest to enroll in the course on solar technology. As part of his training, Rohit was also educated in Digital Literacy and was given hands on experience in handling a computer.

After finishing the skill-building course, Rohit completed his on-the-job training with SUNREGYC SOLAR where his technical expertise was further enhanced to meet current market requirements. He also worked in Nashik on a 15-kilowatt solar grid plant.

Skilling and Entrepreneurship for Women



The benefit of skilling is realised when technical skills imparted through the courses, result in gainful employment and entrepreneurship. Towards this end, LTPCT has partnered with different organisations to empower beneficiaries with access to market avenues leading to employment or self-employment. Women centric skill-building programmes were introduced in 2009 to ensure gender equal opportunities for livelihood skilling.

Access to livelihood promotion programmes, relevant platforms for establishing micro-enterprises, and encouraging economic empowerment among women have been the programme's focus areas. Specialised training modules have been designed for aspirational trainees to build enhanced capabilities in order to explore income generation opportunities for self-employment.

The training modules are designed to help women become skilled micro-entrepreneurs with opportunities to work part time from the comfort of their homes. While skilling modules have been offered in beauty therapy and bedside assistant courses, stitching and tailoring related trades have witnessed maximum interest and employment growth.



CASE STUDY

Gulafsha's aspirations for her son, make her a Master Artisan!



I like stitching. At the production unit, my goal is to always learn and take up more work so that I can earn well and save money for Arhaan's school admission.

Bright-eyed and energetic Gulafsha has emerged as one of the better artisans in her group. Starting off as an enthusiastic participant who was open to try new things, she has now grown into a master artisan, whose opinions are valued during product design development.

Over months of interactions and friendly conversations, Gulafsha expressed the real reason for her motivation - her 3-year old son Arhaan. Gulafsha hopes to send her son to an English medium school of her choice and her goal is to save funds for his admission next year. Gulafsha is a clear example of how personal goals and a positive attitude can inspire anyone on a journey of self-realisation! She repeatedly excels at work and generally embroiders the maximum number of pieces each time an order is placed.

With a shy smile and a sense of pride, Gulafsha loves to take ownership of her work. Her trainers are confident that with a little more handholding and support, Gulafsha will not only fulfill her dream of educating Arhaan in a good school but will also accomplish much more!



Training-cum-incubation centre for livelihood promotion

'The earning by learning' approach is adopted to develop market relevant products, high in quality and versatile in design. Different projects in stitching and hand embroidery have been designed for women from communities around Nagpur, Mysuru and Mumbai.

Programme impact

Income generated



₹10,50,000

Income generated from sale of handmade products



₹1,97,000

Income generated from sale of hand embroidered clothing

Partnerships for Self-Employment

LTPCT collaborates with expert organisations for quality skilling, livelihood and self-employment opportunities. Programme sustainability is ensured through establishing market linkages for micro-entrepreneurship.



Group of Urban and Rural Development (GUARD), and Caravan Evolved Craft Pvt. Ltd. Mysuru

90 women artisans, earlier trained by GUARD, are now supported by Caravan for training in advanced product designing in hand embroidery, and product export to overseas markets.



Save the Children and Tisser Rural Handicrafts, Mumbai

The Tailoring Training Centre was converted into a community-based production centre to encourage women to form Self Help Groups for micro-entrepreneurship. High-end apparel, created by 20 women is marketed to online stores in collaboration with Tisser and individual designers.



Aroha Multipurpose Society, Nagpur

Advanced training in product designing; support in sales through digital marketing as well as product exhibitions, provided to 34 women.



Savitribai Phule Mahila Ekatma Samaj Mandal, Aurangabad

Advance skill training in tailoring designs, business development and micro-enterprise management provided to 129 women.



Weaker Section and Tribal Rehabilitation Charitable Trust (WESTRIC), Coimbatore

WESTRIC Trust, a Non-Governmental Organisation working on women empowerment, has established two income generating units for 24 low income women trained by LTPCT.

Technological Integration for Skilling, Employment Generation and Entrepreneurship



Building capacities of farmers in the usage of new technologies for improving crop productivity

LeanAgri, a technology-based data application, provides innovative solutions and technical support to farmers on soil and water testing, crop recommendation, disease prevention measures and practices for increasing yield. As a pilot, 30 farmers in Talasari have benefitted from the use of this technology.



Utilisation of a digital platform for access to information on Government schemes

Using an app installed in the beneficiary's mobile phone, their demographic, economic and household characteristics are entered and analysed. Based on the information provided, relevant Government schemes basis their entitlement is thrown up on the app. Detailed systematic guidance on the application procedure is provided to the beneficiaries.



Introduction to Solar Technology at A.M. Naik Technical Training Centre, Kharel, Gujarat

A skilling course in Solar Technology for a duration of 3 months to a batch of 18 trainees was initiated this year at A.M. Naik Technical Training Centre, Kharel, Gujarat. The first batch of Solar Technicians are supported by 21 industries for placement, and trained using a well-equipped laboratory and power generating system of 22.5 KW.



Digital Literacy course as value add to skill-building

A new training centre established in 2017, provides training in Digital Literacy to local youth and women in the vicinity. Certified by NASSCOM Foundation, the course endeavours to create a digital ecosystem in Kharel, where usage of technology becomes a regularity in the lives of the community members.





Digital marketing of handmade products

A web sales portal 'Rangaresha' has been launched to enable bulk orders for different products such as hand embroidered materials and apparel to generate income for women micro-entrepreneurs by Aroha, Nagpur.



Scaling up access to digital literacy

The installation of computer labs in public schools and the training of local youth and community members in computer technology has transformed the tribal-rural community in Talasari and Navsari into a digitally literate population.



"At L&T, we consider it a privilege to be of service to those in great need. Our programmes in preventive, promotive and curative health services began way back in 1963. Across the years, we have undertaken several health initiatives to provide top-quality healthcare to the underprivileged. These initiatives have strengthened L&T's community engagement and social welfare agenda. We continually expand and upgrade the spread and range of our services, to bring them within reach of the underprivileged."

Dr. K.J. Kamat

Executive Vice President

CSR, Medical, Health & Welfare Services, L&T

And Trustee, Larsen & Toubro Public Charitable Trust

Our Synergy with the United Nations Sustainable Development Goals



Health that Strengthens

The primary goal of India's National Health Policy, 2017 is the attainment of the highest possible level of health and well-being for all age groups, through universal access to preventive, promotive and curative healthcare services. While the Government of India has continued to prioritise health in its strategic five-year plans, India's complex social system and competing state priorities create disparities in health, particularly for marginalised communities. LTPCT addresses the root cause of health inequalities, and works towards ensuring improved access to health and well-being for communities in and around L&T's facilities.

Faced with social discrimination and exclusion, marginalised communities are often deprived of access to quality healthcare services, and thus unable to achieve a better health status. The goal of LTPCT's Health programme - Project Aarogya - is **'Good Health for All'**, where the Trust strives to provide affordable and accessible healthcare through Community Health Centres and Mobile Health Units to remote geographies. Aligned with Sustainable Development Goals and National Goals on Health, LTPCT's focus areas include primary healthcare, maternal and child care,

HIV/AIDS, family planning and curative blindness. The ten Community Health Centres and thirteen Mobile Health Units states Maharashtra, Gujarat and Tamil Nadu are managed by qualified health professionals. This is a demonstration of LTPCT's commitment towards good health for the underprivileged communities in locations where L&T operates; as well as in remote areas.

The focus is on strengthening the public health system and improving health infrastructure in rural areas to promote sustainable transformation in the country's healthcare delivery system. LTPCT works closely with Government local bodies and builds capacities of frontline healthcare workers—Accredited Social Health Activists (ASHA), Anganwadi Workers (AWW) and Auxiliary Nurse Midwives (ANM), to produce a competent cadre of grassroot workers who play a vital role in transforming the health status of local communities.



Furthermore, deployment of technology has enhanced operational efficiency of mobile health units and enabled real time monitoring of pregnant women within the communities.



Health education in schools for students' development

Programme Conceptual Framework

Health indicators

	Maternal mortality ratio:	174 per 100,000 live births
	Infant mortality rate:	34 per 1000 live births
	Prevalence of anaemia:	60% in women

Health challenges

- Health disparities among marginalised communities
- Limited access to quality healthcare
- Inadequate health infrastructure to meet increasing demands
- Shortage of healthcare service providers



Strategic approach



Community healthcare centres that offer a range of interdisciplinary healthcare services



Community outreach programmes to cater to remote areas and to elderly and immobile patients



Ante-natal and post-natal care, nutritional counselling and medication for pregnant women, mothers and infants



Affordable eye care for low income individuals diagnosed with visual impairment



Strengthening human capital for delivery of healthcare services at the grassroots level

Programme interventions



Community Health Centres: Provide affordable outpatient care to communities in and around L&T business units and growth centres



Targeted health interventions: : Maternal and child healthcare initiative



Health on Wheels Programme: Access to quality healthcare for communities in rural and remote areas



Alignment with national healthcare programmes

1. National AIDS Control Programme
2. National Blindness Programme
3. National Dialysis Services Programme
4. National Rural Health Mission



Multi-pronged approach



Improve access to affordable healthcare



Strengthening public health infrastructure through collaboration with local Government bodies for upgradation of health facilities



Building capacities of frontline staff in healthcare service delivery



Alignment with national goals and contributing to the national health agenda



Incubating pilot programmes to demonstrate deployment of technology to improve quality of maternal and child healthcare

Community Health Centre



The creation of Community Health Centres (CHC) to provide referral and specialist healthcare to rural populations, constitutes the secondary level of public healthcare system in India. While 16% of CHCs in rural India meet the Indian Public Health Standards (IPHS) of maintaining an acceptable standard of quality of care, considerable proportion of the rural population, the particularly in remote areas, lacks adequate primary healthcare facilities. Limited access to specialised care, shortage of qualified healthcare professionals, and alarming out-of-pocket expenditure continue to be the pressing problems for these communities. In its endeavour to meet health needs and provide primary medical care that is region specific, LTPCT has established Community Health Centres in Coimbatore, Chennai, Kuppam, Kattupalli, Lonavala, Mumbai (Powai, Andheri and Titwala), Surat, and Vadodara.





Community Health Centres equipped with modern, state-of-the-art facilities, provide outpatient care (OPD) and a range of interdisciplinary services at affordable costs, to ensure that beneficiaries are reached to the last mile. From primary healthcare through one-on-one consultations with doctors, to speciality and super-speciality services in General Medicine, General Surgery, Obstetrics, Gynaecology and Paediatrics, the healthcare services at the centre are delivered by experienced doctors, nurses and paramedics. These initiatives continue to transform underprivileged communities by ensuring quality standards, and by increasing the number of centres with world-class infrastructure and trained on-ground staff.



Health services

The health services offered, include diagnostic services such as pathological and radiological investigations; preventive services such as vaccination, dental procedures; and remedial services such as dialysis, physiotherapy, leprosy treatment, HIV-AIDS and TB control. Sensitisation and awareness on general health through medical camps and health awareness talks are also organised at the community level.

Health benefits

	3	States
	10	Health Centres
	44	Dialysis units
	5,00,000	Beneficiaries reached

L&T Prayas Medical Centre – Chennai



Medical care is not just about giving the best medical attention. We should remember that we are dealing with people and emotions. Hence it is important to give emotional support and care to every patient by being there and helping them alleviate the pain that they are experiencing during the treatment process.

Mrs. Meena Subrahmanyan
President
Prayas Trust



The Prayas Trust is a social welfare Non-Governmental Organisation. It has been formed by the wives of employees from L&T Construction and is partly financed by L&T's management. The Prayas Trust runs the Prayas Medical Centre in Chennai, Tamil Nadu. The centre is managed by the Prayas Health Committee, comprising of members from the Trust. Over the years, the centre has grown into a full-fledged, multi-speciality Health Centre where qualified medical practitioners offer consultation and medicines to more than 300 patients every day. The Health Committee has been its backbone, managing the Community Health Centre seamlessly, with enthusiasm and rigour. Specialised healthcare services in ENT, Orthopaedics, Paediatrics, Gynaecology, Nephrology and General Medicine are offered. Facilities include a full-fledged laboratory, a 10-bed dialysis unit, an X-Ray unit, a pharmacy, an ultrasound unit as well as specialised eye, dental, skin and cardiology units. Additionally, periodic health camps are organised at the centre as well as in the nearby Government schools to diagnose and treat certain illnesses prevalent among women and children, in order to foster better health management. A counselling unit helps patients overcome stress, alcoholism, and depression due to infertility issues and other illnesses. A Mobile Medical Unit reaches out to the wider community, providing preventive and therapeutic medical care to nearby villages at their door step. Recognised as one of the best centres managed by a group of committed women who plan and execute its operation meticulously, the team aspires to expand existing services to reach out to many more people.



Staff of L&T Prayas Medical Medical Centre, Chennai



Health and Dialysis Centre, Surat

Inaugurated in 2015, the Larsen & Toubro Health and Dialysis Centre in Surat provides dialysis services to communities in and around Adajan, Palanpur, Pal, Rander, Athva, Bhatha and Bhatpur areas. A well-equipped Mobile Medical Unit reaches deep into Surat's tribal blocks, providing timely health services at their doorstep. The centre, in collaboration with the Central Government, has benefitted over 50,000 people across 560 villages.



Health and Dialysis Centre, Vadodara

The Community Health Centre in Vadodara has been providing healthcare services and dialysis facilities since 2013. The centre works in partnership with the State and Central Governments, helping beneficiaries register for dialysis with the Government of Gujarat.



Medical Centre, Lonavala

The centre, instituted in 2014, is equipped with diagnostic facilities including an X-Ray machine, ECG system and a full-fledged pathology laboratory. The centre caters to the tribal population in and around the area, providing diagnosis and medicines to local communities.



Health Centre, Kattupalli & Kattupalli-Kuppam

Residents of Kattupalli, Kattupalli-Kuppam and Kalanji villages used to travel around 15 km to the nearest PHC to avail of medical care. Recognising the issue, LTPCT launched a Community Health Centre at Kattupalli and Kattupalli-Kuppam in 2013 to facilitate consultation with doctors and provide essential medicines.



Antiretroviral Therapy (ART) Centre, Andheri, Mumbai

Since the 1990s, L&T has been working with HIV/AIDS afflicted people through formulation of a HIV/AIDS policy at the Corporate level and implementation of sensitisation programmes for L&T employees.

The Antiretroviral therapy (ART) centre is another initiative towards preventive and diagnostic care for patients living with HIV/AIDS. Located in and around Mumbai suburbs, the Centre provides treatment and support to HIV/AIDS patients with diagnostic services, including free blood investigations, X-Ray, CD4 count test and sonography. Medicines issued by the Government are distributed free of cost.

The Centre is managed in partnership with the Municipal Corporation of Greater Mumbai and is located at the existing health post at Koldongri, Andheri, Mumbai. Patient confidentiality is maintained at all times, and every staff member is specially trained to treat patients with sensitivity and respect.

The Centre with a 2000-patient treatment capacity per year, has been recognised by various Government and Non-Governmental agencies for its expertise, quality of services, meticulous record management and patient-friendly environment.



NIRALI – A.M. Naik Charitable Healthcare Facility, Powai, Mumbai



Advancing the Company's mission to provide affordable, accessible and high-quality healthcare services to local populations, Mr. A.M. Naik, Group Chairman, Larsen & Toubro, established a state-of-the-art healthcare facility for communities in and around Powai. The cost of construction, hospital equipment and infrastructure were donated by the Nirali Memorial Medical Trust.

Inaugurated on June 9, 2017 this one-stop healthcare facility provides out-patient care, dialysis services and mother and child health care to local communities. Irrespective of economic strata, the healthcare facility caters to all patients, residing in and around the facility, in need of diagnostic services and treatment.



The L&T Community Health Centre in Coimbatore, an 'Aarogya' Initiative of L&T Public Charitable Trust (LTPCT), was conferred the Mayan Award 2018 for serving the underprivileged with effective OPD services, and for collaborating with the Government to provide quality healthcare to the last mile. Hosted by Mayan Vista India, the Mayan Awards honours dedicated veterans and institutions for their contribution in proficiency and skills across different sectors including health.

Instituted in 2012, the Community Health Centre in Coimbatore offers outpatient care services. A clinical laboratory was added to the facility three years later in October 2015, to offer pathological tests at highly subsidised rates. In collaboration with the Government's initiative 'Pradhan Mantri Bharatiya Jan Aushadhi Kendra', the centre serves as a focal point for underprivileged patients to receive generic medicines at a lower cost of 50-70 % compared to branded medicines.

The L&T Community Health Centre, Coimbatore, was recognised for the team's dedicated effort to mitigate challenges faced by the bottom-of-the-pyramid population in accessing affordable and quality healthcare. Mr. R.K. Maheswaran, Head of our Transmission Line Tower Factory, Puducherry, received the award from Dr. Kiran Bedi, the Hon'ble Governor of Puducherry on January 19, 2019.



Staff of Community Health Centre, Coimbatore

Health on Wheels



Five-year plans on healthcare in India lay emphasis on the need for wider and better coverage of primary healthcare services for all, particularly for rural and remote areas where district hospitals and public health centres are few and sometimes even non-existent. Various healthcare programmes by the Government and civil society aim to reach out to vulnerable and marginalised communities. LTPCT, in its endeavour to ensure 'Good Health for All', has launched the Health on wheels programme, with 13 mobile health units. This is to help tribal communities in rural and remote areas have access to healthcare. Professionally managed by five Community Health Centres and well-equipped with diagnostic amenities, the Mobile Medical Units offer preventive care, curative treatment and essential medicines for patients.

The programme has particularly benefitted elderly and immobile patients, helping them avoid spending time and resources travelling to the nearest District Hospital. Frequent and timely medical treatment administered to the local rural community by trained doctors and nurses has resulted in a significant improvement in health seeking behaviour, screening and early detection of debilitating health conditions. This has hospitalisation cases resulting from serious illnesses and lowered the probability of patients being subjugated to inappropriate health interventions.



Real-time monitoring through GPS tracking

Each Mobile Health Unit is monitored continuously using a GPS tracking system and a dashboard that records relevant programme data, as well as patients' clinical details. Data across locations is captured on one platform, resulting in simplified and objective reporting.

Community reach



13

Mobile clinics



3

States



400

Villages



4,30,000

Beneficiaries



Partnerships



Technology partner: Goodera

This is a leading healthcare solutions provider, focused exclusively on helping ambulatory care providers and the communities they serve. Their integrated platform is used to increase productivity, ease information exchange and enrich the patient experience.

Maternal and Child Healthcare (MCH)



While India has made significant strides in reducing the maternal mortality ratio from 556 to 174, maternal deaths per 1,00,000 population over the past decade (World Bank), various socio-economic factors and inaccessibility to healthcare facilities have resulted in low utilisation of maternal and child healthcare services, particularly in remote areas. LTPCT's Maternal and Child Healthcare initiative intends to have a sustainable impact on the health-seeking behaviour of beneficiaries and positively influence the MCH indicators for the Talasari block. The programme especially focuses on improving ante-natal and post-natal coverage. The plan is to reduce the number of babies born with low birth-weight as well as the high risk faced by mothers during childbirth by improving health/nutrition status of Severely Acute Malnourished & Moderately Acute Malnourished (SAM & MAM) children under five years of age and sensitising adolescents towards family life education.

The Maternal and Child Healthcare Initiative in Talasari covers 46 villages under four PHCs (Amgaon, Vasa, Sutrakar & Udhava) in the Talasari block of Palghar district in Maharashtra, that have below average maternal and child health indicators. The initiative aims to directly benefit women in the reproductive age group and children under five, as well as impact 1,50,000 beneficiaries indirectly. The initiative conducts training programmes for ANMs, ASHAs, and Anganwadi workers to expand counselling to mothers living in inaccessible areas; and coordinates with block officials for special camps focusing on high-risk mothers. Communication activities are organised for behaviour change and greater community engagement.



Care Nx 1000 Day Programme

Nineteen Auxiliary Nurse Midwives (ANMs) (ten from Amgaon and nine from Vasa PHC), have been trained on usage of CareMother - a mobile pregnancy care solution for quality 'doorstep' ante-natal care using a portable kit, smartphone app, and web portal for managing high-risk pregnancies. The mobile solution monitors the health of mothers and their infants, ensuring effective ante-natal coverage, reduction in the number of infants born with low weight and early detection of high-risk pregnancies.

Pregnant women are registered on the platform by ANMs, and their complete clinical details based on select health indicators are filled by ASHA workers. Medical Officers at the PHC and Block Health Officers develop an action plan for each patient based on the details provided, while ANMs and ASHA workers implement the plan.



Community reach



1732 Mothers counselled



2644 Women provided full coverage of ante-natal services



625 High-risk pregnant women counselled



1000 High-risk pregnancies tracked



5421 Children immunised



82% Pregnant women witnessed weight gain during pregnancy



6396 Students provided with family life education



195 Frontline health workers trained

Partnerships



J.V. Gokal Charity Trust

This Trust works with frontline health care providers, block officials and panchayat members focusing on behavioural change and building capacity of frontline healthcare providers.



Care Nx Innovations

They provide end-to-end solutions to vulnerable mothers in remote villages, and connect them with modern healthcare facilities.



Palghar Zilla Parishad

Elected democratic representatives of Palghar district, deeply engaged in local development



CASE STUDY

Geeta's journey towards a healthy pregnancy



I was not aware about these tablets and never considered it an important aspect for my health and my child's future. But now I am completely focused on being healthy for myself and my children.

Pregnant with her 4th child, Geeta Urade visited the PHC at Vasa, where she was diagnosed with both, low-weight and haemoglobin levels. During a counselling session, it came to light that Geeta had no knowledge of diet and nutrition for a healthy pregnancy. As Geeta's husband is a migrant worker, she was solely responsible for managing the household and tending to her children's needs. Focusing on her health was never a priority.

Recognising the need for a targeted one-on-one approach to educate Geeta on health and nutrition, the Community Mobiliser organised three home visits as part of Geeta's ante-natal care and she was advised to have balanced meals. Diet plans were developed to ensure vital vitamins and minerals essential for Geeta and her child's growth were consumed regularly. Through informative videos shown on a digital tablet, the importance of iron and folic acid tablets and the benefits of institutional delivery were effectively communicated.

During the Community Mobiliser's second visit, a marked change in Geeta's overall health was observed. Her diet now included drumstick leaves, eggs and leafy vegetables, in addition to regular consumption of iron and folic acid tablets. The third visit showcased a significant increase in Geeta's weight from 37 kg to 43 kg, and a rise in her haemoglobin levels from 9.9 to 10.2 mg/dl. The Community Mobiliser's periodic involvement resulted in a positive change in Geeta's health-seeking behaviour where she is now conscious about her diet and the health of her child.

Better Vision for All



For underprivileged communities, buying a pair of glasses to see and read clearly is a challenge. Unable to afford a simple pair of glasses, people from rural areas continue to live with limited visibility, thereby reducing their productivity and adversely impacting their quality of life. In its endeavour to support the Government of India's National Programme for Control of Blindness and Visual Impairment, LTPCT partnered with VisionSpring to provide affordable eye care to low income individuals suffering from visual impairment.

Around 55 eye-screening camps were conducted across 34 villages in Talasari Block where individuals were screened and eye glasses were provided based on the identified refractive error. Individuals requiring further diagnosis and treatment were referred to local Government hospitals. The initiative also includes awareness sessions on eye health; and education of communities on the importance of regular use of glasses.

Visual Impact



7516 Individuals screened



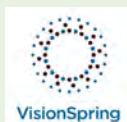
3905 Glasses provided



92% First-time wearers



Partnerships



Implementation partner: VisionSpring

Established in 2001, VisionSpring provides affordable, good quality glasses to low income communities.

Technology as a Programme Enabler



GPS tracking system

Usage of technology to monitor key programme functions and enhance operational efficiency, thereby facilitating delivery of timely and quality healthcare services to remote areas.



Real time data collection on prevalence of malnutrition in Talasari block

Using KoBo Toolbox software, children's anthropometric data that provides information on prevalence and severity of malnutrition is collected and mapped to visualise hotspots of malnutrition cases.

The application-based data is compared with data from Government sources to identify locations for intervention, priority programmatic areas, and relevant local interventions for tackling malnutrition.



CareMother mobile-based pregnancy care application

Through the use of technology, high-risk pregnant women are closely monitored by Auxiliary Nurse Midwives and Medical Officers. They are also given periodic guidance on birth preparedness, and counselled on overall care, nutrition and infant feeding practices.



Partners

EDUCATION

Agastya International Foundation, Bengaluru

eSense Learning Pvt. Ltd.,

Navneet Publications, Mumbai

Hope Foundation, Mumbai

Integrated Child Development Scheme

Magic Bus India Foundation, Mumbai

Palghar Zilla Parishad, Palghar

Pratham Education Foundation, Mumbai

Pratham Infotech Foundation, Mumbai

Read a Story: Amod Joshi, Pune

Rhythmic Running, Mumbai

WATER & SANITATION

Gram Oorja Solutions Pvt. Ltd., Mumbai

LeanAgri Technology Services Pvt. Ltd., Pune

Palghar Zilla Parishad, Palghar

Society for Action in Creative Education And Development (SACRED), Aurangabad

Waterfield Technologies, Mumbai

MONITORING, EVALUATION AND CAPACITY BUILDING

Goodera (Nextgen PMS), Mumbai

Innovations Pvt. Ltd., Mumbai

Samhita Social Ventures, Mumbai

Social Lens Consulting Pvt. Ltd., Mumbai

SynergyConnect Data Terracon Ecotech Pvt. Ltd., Mumbai

SKILL-BUILDING

Anil Naik Technical Training Centre, Kharel, Navsari

Aroha Multipurpose Society, Nagpur

CARAVAN Evolved Craft Pvt. Ltd., Bengaluru

Children's Aid Society, David Sassoon Industrial School, Mumbai

Community Aid & Sponsorship Programme, Mumbai

Family Planning Association of India, Mumbai

Group of Urban And Rural Development, Mysuru

India Sponsorship Committee, Lonavala

Integrated Tribal Development Programme, Palghar

KEM Hospital Research Centre, Pabal, Pune

Kotwalwadi Trust, Neral, Karjat

LeanAgri Technology Services Pvt. Ltd., Pune

Mahalingam College of Engineering & Technology, Coimbatore

NASSCOM Foundation, Mumbai

National Skills Development Corporation, Delhi

Orion Edutech, Kharel

Palghar Zilla Parishad, Palghar

Pratham Education Foundation, Mumbai

Pratham Infotech Foundation, Mumbai

Rathinam Foundation, Coimbatore

Resource Centre for Juvenile Justice, Mumbai

Sampoorna Bamboo Kendra, Talasari

Save The Children India, Mumbai

Savitribai Phule Ekatma Manav Samaj Mandal, Aurangabad

Sri Sri University, Bhubaneswar

Tisser Artisans Trust, Mumbai

UMED, Talasari

United Nations Development Project, Delhi

Weaker Section And Tribal Rehabilitation Charitable Trust, Coimbatore

HEALTH

Health Centres

A. M. Naik Charitable Healthcare Facility, Powai

L&T Anti-Retroviral Therapy (ART) Centre, Koldongari, Andheri

L&T Health & Dialysis Centre, Surat

L&T Health & Dialysis Centre, Vadodara

L&T Health Centre, Coimbatore

L&T Health Centre, Kattupalli - Yours Medcorp

L&T Health Centre, Kattupalli Kuppam - Yours Medcorp

L&T Medical Centre, Lonavala Mahaganapati Trust Dialysis Unit, Titwala

Prayas Medical Centre, Chennai

Partners

Aakanksha Rehabilitation Centre, Ahmednagar

Adyar Cancer Institute, Chennai

Apollo Medskills Limited, Mumbai

Hand In Hand, Kattupalli

HelpAge India, Chennai

J.V. Gokal Charity Trust, Talasari

Palghar Zilla Parishad, Palghar

Society for Innovation & Entrepreneurship (SINE- Carenx), IIT Mumbai

Vision Spring, New Delhi

Yash Public Charitable Trust, Hazira

FUNDING PARTNERS

L&T Chiyoda Ltd., Vadodara

L&T Technology Services Ltd., Mumbai

L&T Welfare Company Ltd., Mumbai

SAP Lab India, Bengaluru



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Financial Review 2018-2019

SCHEDULE - VIII

The Bombay Public Trusts Act, 1950

Name of the Public Trust:- LARSEN & TOUBRO PUBLIC CHARITABLE TRUST

Balance Sheet As at March 31, 2019.

[Vide Rule 17 (1)]

Registration No:- E 22226

FUNDS & LIABILITIES	₹	₹
Trusts Funds or Corpus		
Balance as per last Balance Sheet	2,58,14,00,787	
Adjustment during the year (Corpus received during the year)	11,39,93,260	2,69,53,94,047
Other Earmarked Funds (Created under the provisions of the Trust Deed or Scheme or out of the Income)		
Depreciation Funds	-	
Sinking Funds	-	
Reserve Fund	-	
Any other Fund (Uttarakhand Flood Relief Fund)	5,20,61,617	5,20,61,617
Grant for CSR & Spent		
Grant for CSR	42,50,000	
Spent for CSR	-42,50,000	0
Loans- Secured or Unsecured		
From Trustees	-	
From Others	-	
		-
Liabilities		
For Expenses	6,24,51,497	
For Advances	-	
For Rent and Other Deposits	-	
For Sundry Credit Balances	-	
		6,24,51,49
Income and Expenditure Account		
Balance As per last Balance Sheet	27,68,82,673	
Less:- Appropriation, if any	-	
	0	
Add:- Deficit (As per to Account	-4,22,63,611	23,46,19,062
Less:- Surplus Expenditure Account)		
TOTAL		3,04,45,26,223

PROPERTY AND ASSETS		₹	₹
Immovable Properties - At cost			
Balance as per last Balance Sheet		-	
Additions during the year		-	
Less:- Sales during the year		-	
Depreciation up to date		-	
			-
Investments			
Mutual funds	Schedule - 1 A	6,25,00,000	
(Market value as on 31 March, 2019 ₹ 6,52,21,271)			
Government of India Bonds	Schedule - 1 B	47,36,84,702	
(Market value as on 31 March, 2019 ₹ 47,46,67,991)			
Tax Free Bonds	Schedule - 1 C	2,06,76,57,640	
(Market value as on 31 March, 2019 ₹ 2,10,86,31,610)			
Investment in Fixed Deposit		10,05,00,000	
			2,70,43,42,342
Fixed Assets	Schedule -2		3,16,00,879
Deposit			12,48,395
Current Assets & Advances			
To Trustees		-	
To Employees		-	
To Contractors		1,94,620	
To Mutual Funds		-	
To Interest Receivable		15,63,85,674	
To Prepaid Expenses		3,09,678	
To Tax Deducted at Source & Self Assessment Tax		1,67,46,676	
			17,36,36,648
Cash and Bank Balances			
(a) In Savings Bank Account with HDFC Bank - Mumbai		12,96,30,507	
(b) In Savings Bank Account with ICICI Bank - Mumbai		38,19,357	
(c) In Savings Bank Account with Dena Bank- Kharel		77,370	
		13,35,27,234	
(a) With the Trustee		-	
(b) With the manager		1,70,726	
			13,36,97,959
Income and Expenditure Account			
Balance as per last Balance Sheet		-	
Less:- Appropriation, if any		-	
Add:- Deficit	as per Income and	-	
Less:- Surplus	Expenditure Account	-	
TOTAL			3,04,45,26,223

(Secretary)
(Pramod Nigudkar)

SCHEDULE - IX

The Bombay Public Trusts Act, 1950

Name of the Public Trust:- LARSEN & TOUBRO PUBLIC CHARITABLE TRUST

[Vide Rule 17 (1)]

Registration No:- E 22226

Income and Expenditure Account for the year ending March 31, 2019.

EXPENDITURE	₹	₹
To Expenditure in respect of properties		
Rates, Taxes, Cesses	-	
Repairs and Maintenance	-	
Salaries	-	
Insurance	-	
Depreciation (by way of provision of adjustments)	-	
Other Expenses	-	-
To Establishment Expenses		52,77,698
To Remuneration to Trustees		-
To Remuneration (in the case of a <i>Math</i>) to the head of the <i>Math</i> . Including his household expenditure, if any		-
To Legal Expenses		-
To Audit Fees		-
To Provision for Diminution in Value of Investments		-
To Loss on Sale of Securities (Net)		-
To Amount Written Off		
(a) Bad Debts	-	
(b) Loan Scholarship	-	
(c) Irrecoverable Rents	-	
(d) Other Items	-	-
To Provision for diminution in value of investments		-
To Miscellaneous Expenses		-
To Depreciation		53,06,516
To Amount Transferred to Reserve or Specific Funds		-
To Expenditure on Objects of the Trust		
(a) Religious	-	
(b) Educational	9,83,69,791	
(c) Medical Relief	12,29,19,469	
(d) Relief of Poverty	-	
(e) Other Charitable Objects	1,89,97,531	
		24,02,86,791
To Surplus Carried Over to Balance Sheet		
TOTAL		25,08,71,005

INCOME		₹	₹
By Rent	(accrued)	-	
	(realised)	-	-
By Interest	(accrued)	-	
	(realised)	-	
	On Securities	17,23,17,340	
	On Loans	-	
	On Bank Accounts	6,89,263	
	On Fixed Deposits (HDFC Limited)	93,08,723	18,23,15,326
By Income from Mutual Funds			
	Dividend on units of mutual funds	0	
	Gain on redemption of mutual funds	4,53,85,321	4,53,85,321
By Profit on Sale of Securities (Net)			-1,96,53,164
By Donations in Cash or Kind			2,42,350
By Grants			-
By Provision for Diminution in Value of Investments written back			3,17,473
By Transfer from Reserve			-
By Miscellaneous income			87
By Deficit carried over to Balance Sheet			4,22,63,611
TOTAL			25,08,71,005

(Secretary)
(Pramod Nigudkar)



"Technology has the power to unify society and facilitate greater inclusion, but for the most part, this has not happened till date. There is a huge opportunity to use technology to connect communities to the last mile, and positively impact their lives. Our journey in this direction has begun but we still have a long way to go ..."

A.M. Naik
Chairman, LTPCT

LARSEN & TOUBRO

Public Charitable Trust

Larsen & Toubro Public Charitable Trust

Landmark, 'A' Wing, 4th floor, Off Andheri-Kurla Road, Chakala, Andheri (East), Mumbai - 400 093
Regd. Office: Larsen & Toubro Limited, L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA CIN: L99999MH1946PLC004768

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