

Message from the Secretary's Desk



JAYESH RANJAN IAS
Principal Secretary to Govt.

Information Technology,
Electronics & Communications
Department
Govt. of Telangana

I am overjoyed and honored to release the annual report of the Information Technology, Electronics and Communications [ITE&C] Department for the fifth consecutive year.

My colleagues and I feel proud that the practice of putting out our activities and accomplishments in the public domain has become an integral part of the department. We trust that this practice enhances the standards of transparency and trust between government and people.

Firstly, I would like to share that the state is steadily going forward on the path we designed to achieve the target of doubling our IT/ITeS exports and has almost achieved the ambitious target set five years back (~190% increase). Like the previous four years, we have continued to outperform the expected nation's IT/ITeS growth rate (YoY) by close to 170%. The department has smoothly handled engagements with several companies and encouraged them to setup campuses in Telangana with a vision to reach million headcount of IT employees very soon.

All the organizations/wings which we had created over the past few years such as T-Hub, TASK, T-SAT, T-Fiber, State Innovation Cell have continued to excel and beat the expectations. Incumbent organizations such as ESD and TSTS have carried out some incredible entrepreneurial work in citizen services and are being treated as exemplar organizations across the other states of India. We are also delighted to announce the official setup of T-SIG (Telangana Social Impact Group) which would play a pivotal role in remodeling the corporate social responsibility in the state.

This year, T Hub and State Innovation Cell have took it up

a notch to carry out several initiatives to encourage and support innovation and entrepreneurship ecosystem across the state. I am happy to announce the formal launch and set up of WE Hub, India's first state-led incubator exclusively for women. Smt. Kiran Mazumdar-Shaw had inaugurated a physical incubator space exclusively for women in March 2019.

Other established wings such as TASK and T-SAT are growing from strength to strength to set up the human capital required to make Telangana as the go-to destination for any IT organization. T-Fiber works are being carried out at a rapid pace and they had established an edutainment centre - India's First Rural Entertainment & Education Zone in conjunction with Telangana Academy of Skill and Knowledge (TASK).

The ITE&C department has been constantly supporting government departments to adopt several technologies such as IoT, Block-chain, Drones, AI & ML, etc. which had resulted in fruitful outcomes. The IT department also went through the complete cycle of development and has successfully launched several smart governance initiatives in coordination with other departments such as MeeSeva 2.0, Pensioner's Life Certification through Selfie (PLCS), Online Application for Distribution of Pattadar Passbooks etc. Several other innovative and unique projects are in the pipeline which are set to launch in the upcoming year.

I would like to thank all the organizations part of IT Industry, government departments and other stakeholders for their constant support and hope it continues further. Telangana has become the pioneer across the country for adopting and implementing technology in governance and we look forward to putting in efforts to continue as the state that is looked up to across the world.



Department's Profile

Information Technology, Electronics & Communications Department plays a crucial role in

- ✓ Policy formulation for IT, ESDM sector
- ✓ Conceptualising and initiating various e-Governance initiatives
- ✓ Promoting investments in IT, ITES, ESDM and other emerging technologies through proactive measures
- ✓ Creating congenial environment for IT, ESDM companies to setup/ expand their operations in the State
- ✓ Monitoring the benefit of IT percolates to the last mile of the State
- ✓ Providing strong communications backbone in the State

- it.telangana.gov.in
- itministertelangana
- MinIT_Telangana
- itministertelangana

Vision

To leverage the Information Technology not only for effective and efficient governance, but also for sustainable economic development and inclusive social development.

Mission

To facilitate collaborative and innovative IT solutions, and to plan for the future growth while protecting, and enhancing the quality of life.

By 2020, Telangana State targets to achieve more than **INR 120,000 Cr** worth of IT exports by growing at a CAGR of **16%** and create direct employment of more than **4 lakhs** and indirect employment of about **20 lakhs**.

The Department has:

7 wings:

01. Promotions

02. Electronics

03. Communications

04. Infrastructure

05. e-Governance

06. Administration

07. Emerging Technologies

One HOD:

Commissioner, Electronics Services Delivery (ESD)

One Public Sector Undertaking:

Telangana State Technology Services (TSTS) Ltd.

Three Registered Societies:

1. Society for Telangana Network (SoFTNET)
2. Telangana Academy for Skill and Knowledge (TASK)
3. Electronics Society

Five Companies:

1. Photonics Valley Corporation (PVC)
2. T-Hub Foundation
2. T- Fiber Grid Corporation
3. T- Works Foundation
5. WE- HUB Foundation.

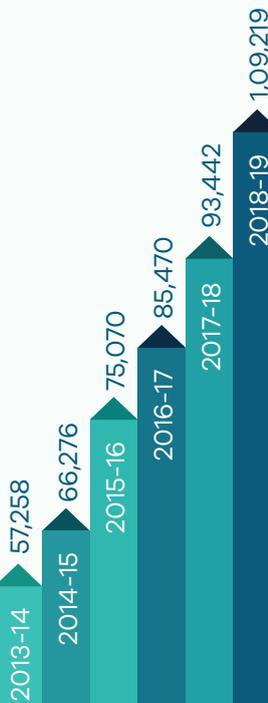


Unprecedented Growth Story

- ✓ The IT, E&C Department has almost achieved its set target of doubling IT/ ITES exports in five years with INR 1,09,219 Cr exports from INR 57,258 Cr in 2013-14.
- ✓ State's IT/ ITES exports registered an impressive growth rate (YoY) of 16.89% during 2018-19 in comparison to expected national average of around 8-10%.
- ✓ Telangana IT sector generated direct employment to 5,43,033 with 67,725 new professionals joining the workforce in the last year.
- ✓ Total investments into IT/ ITES sector last year stood at INR 23,054.02 Cr.

IT/ITES Exports* INR Crores

Employment Technology Professionals



Growth in IT/ITES Exports (2018-19)

ALL INDIA
(Projected by ESC)

8-10%

TELANGANA
16.89%

(The statistics were provided by Director of Software Technology Parks of India - STPI and Development Commissioner, SEZ)





Ushering Telangana into a Digitally Empowered Society

Electronic Service Delivery (ESD) plays an important role in the flagship initiative of Digital Telangana to usher Telangana into a digitally empowered society through several projects and initiatives.

It is the nodal agency that provides smart, citizen centric, ethical, efficient and effective government services through MeeSeva and eSeva platforms. Apart from the delivery of traditional services of G2C, G2B and B2C to every corner of Telangana state using ICT in an accountable, transparent and innovative manner, ESD has undertaken several initiatives in the area of Smart Governance using emerging technologies such as Big Data, Artificial Intelligence (AI), Machine Learning (ML) etc.



ELECTRONIC SERVICE DELIVERY (ESD)

Initiatives of ESD

MeeSeva 2.0

- MeeSeva 2.0 is being rolled out in an incremental manner since 1st March, 2019.
- Roll-out to MeeSeva Centres and Online Portal has been completed; roll-out to Department users in progress.

Aadhar enabled Payment System (AePS)

- Launched on 30th July, 2018, this service allows citizens to withdraw cash from MeeSeva Centres using their biometrics.
- Of great importance in rural areas where Bank Branches/ATMs have limited presence.

T App Folio – the flagship m-governance initiative of Govt of Telangana

- Over 1,00,000 downloads over the past 1 year with onboarding of over 170 G2C, B2C, VAS and Informational Services.
- T App Folio is being integrated mobile apps of other departments such as myGHMC, RTA m-Wallet, HawkEye, etc.

T Wallet – the state owned digital wallet of Govt of Telangana

- Over last 1 year, T Wallet has been integrated with multiple departments and services like Labour, Traffic Police, Streenidhi, TSRTC, CDMA, Vijaya Dairy, Civil Supplies, JNTU etc.
- Disbursement of SC Development Dept. Scholarships - Nearly 4,000 students registered; Rs 2 Cr disbursed.

Number of Registrations

5,09,053 (As on 31-03-19)
1,72,582 (During 2018-19)

Total Transactions (Lakhs)

37.7 (As on 31-03-19)
28.8 (During 2018-19)

Total Amount Routed (Rs Cr)

1,362 (As on 31-03-19)
1,202 (During 2018-19)

Key Statistics of MeeSeva (FY 2018-19)

3,72,48,187

Number of citizens served by MeeSeva

4300+

Number of MeeSeva Centres

40+

Participating Departments/Agencies

600+

Total number of MeeSeva and E-Seva services

43

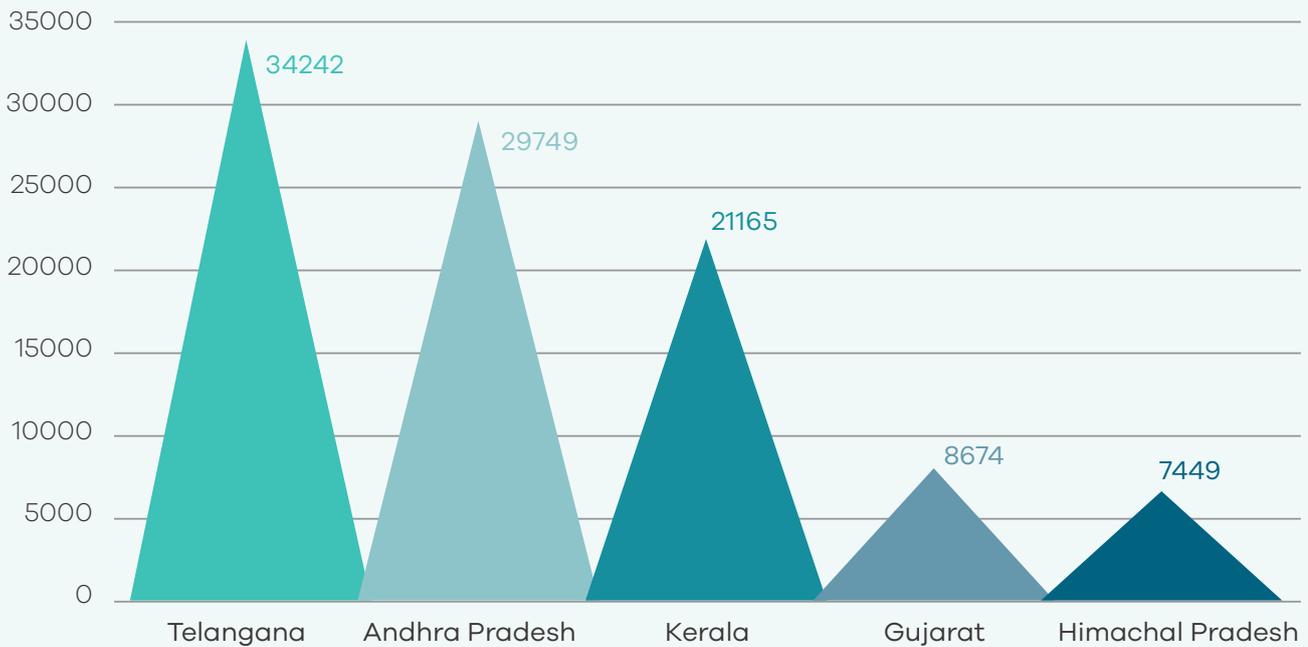
Total number of new services added last year

Rs 4549 Cr

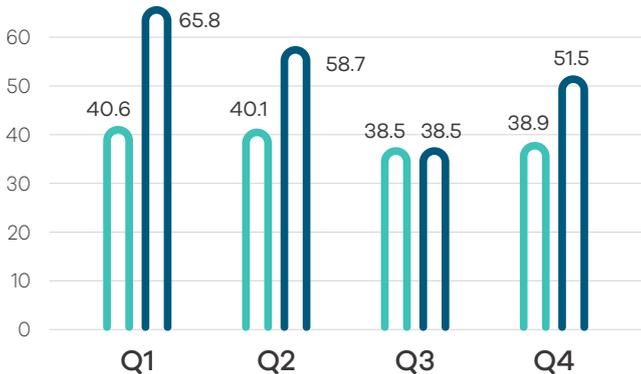
Amount Routed through MeeSeva and E-Seva

Key Performance Indicators for the year (2018-19)

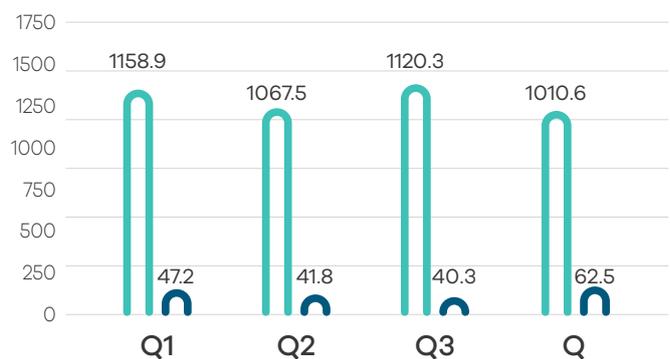
(e-Transactions per thousand population during April '18 to March '19 as per eTaal website of Govt. of India (Excluding UTs))



Quarter-wise ESD Transactions in FY 2018-19 (In Lakhs) ■ e-Seva ■ MeeSeva



Quarter-wise Amount Handled in FY 2018-19 (In Crores) ■ e-Seva ■ MeeSeva



Smart Governance initiatives

Real-time Digital Authentication of Identity (RTDAI)

RTDAI enables a document-less presence-less governance mechanism using Big Data, AI, ML, etc. RTDAI facilitates some of the key processes of Govt. Departments such as name verification, photograph verification, ID verification, etc. for service delivery highly accurate and independent of human judgement along with ensuring proper audit trail for accountability and transparency.

Pensioner's Life Certification through Selfie (PLCS) – Taken up for Department of Treasuries and Accounts leveraging RTDAI that allows pensioners to submit their Life Certificate through a Selfie taken over a smart phone. Rolled out in March, 2019.



Digital India Awards 2018: T App received an award under the Best Mobile App category.



MOU With Estonia

In October 2018, an MoU was signed with Estonia to identify best digital practices and enable exchange of learnings between two parties. Under this MoU, Estonia and the ITE&C Department have agreed to partner each other in the areas of e-governance technologies, internet as a basic human right, entrepreneurship, smart cities advisory, e-health and cybersecurity.

Awards

CSI e-Governance
Award 2018 for
T Wallet

Business World
Award for T App Folio
and T Wallet

Elets - eIndia
e-Governance
Initiative of the Year
Award for MeeSeva

CISO MAG Award under
Most Secure Mobile
App - Citizens Category
for T App Folio

Delegate Visits

More than 20 teams from India and abroad comprising 200+ delegates visited ESD to understand the operations & implementation process of ESD platform.



Members of 15th Finance Commission visited ESD



Common Services Centres (CSC)

Towards realising Digital Telangana objective, Common Services Centres (CSCs) are set up in every Gram Panchayat in the State creating digital infrastructure and at least one digitally literate person in every household.



Initiatives:

PMGDISHA

Pradhan Mantri Gramin Digital Saksharta Abhiyan scheme is aimed at making six crore rural citizens across India digitally literate.

Progress of PMGDISHA in Telangana

3011	Training Centres
3,84,450	Students Regd.
3,78,520	Training Completed
2,18,626	Certified Candidates

Digital Villages through CSC

Digital Village Programme (Digi Gaon) taken up under the aegis of MEITY, GOI makes citizens avail various online services of the Central and State governments apart from the private players. Thirty villages are selected from Telangana for the pilot.

DigiPay

DigiPay is an Aadhaar Enabled Payment System (AEPS) developed by NPCI and CSC SPV. Village Level Entrepreneurs (VLEs) are disbursing pensions, MGNREGA wages and other benefits through this.

eGovernance Initiatives for Govt Depts.

- Endowments Department — Automation of Temples Project for Sri Raja Rajeswari Devasthanam, Vemulawada, Sri Jnana Saraswathi Temple, Basara, Sri Ujjaini Mahakali Temple, Secunderabad and Karmanghat Hanuman Temple, Hyderabad
- Department of Employment and Training — Sponsorship Module and Employer Marketing Information
- Revenue Department Mobile, Online Application for Distribution of Pattadar Passbooks

e-Office Implementation

While 63 Departments (3 Secretariat Departments and 60 HODs) and 9 District offices (Collectorates/Police Offices) are already implementing eOffice module, work is under progress in 25 HODs and 5 District Collectorates

8,169	No. of Users
5,28,984	Receipts created
1,62,641	Files Created



Emerging Technologies for Rapid Digital Transformation

Government of Telangana’s vision is to be a leader in emerging technologies. To translate that vision into a reality, it has created a vertical or a separate wing for emerging technologies – the first of its kind - and the objective is two fold

- to develop the ecosystem required for the Industry
- to make the government departments leverage and adopt emerging technologies.



Sectoral Policies in the pipeline

- 01 Blockchain Policy
- 02 Drone Policy

Projects/Pilot Projects Undertaken

Blockchain

T-Chits – To bring in trust and transparency in the chit fund business for subscribers.

Securing Certificates – To tackle the problem of fake certificates.

StreeNidhi – To build credit history and to give a credit rating to the Self-Help Groups (SHGs) members, who are poor women.

Implementation and pilot deployment of Property Registration Management System using Blockchain technology

Artificial Intelligence

Chatbots - To enhance the citizen service delivery experience.

Drones

Mining – To carry out volumetric analysis and extent of an area of mining.

Agricultural Spraying – Spraying pesticides by using drones

Law Enforcement projects in areas such as traffic management, crowd control, cordon and search, anti-insurgency etc.

MoUs and Partnerships

01

Centre of Excellence (CoE) – Cybersecurity MoU signed with DSCI (Data Security Council of India)

02

CoE – eWaste Mangement – in partnership with C-MET

03

Blockchain District, Partnered with IIIT Hyd, Tech Mahindra and CDAC

04

Artificial Intelligence Courses – in partnership with IIT Kharapur

05

NITI Aayog – partnership to identify emerging technologies initiatives within the govt.

Events Organized

International Blockchain Conference

Hosted India's first-ever International Blockchain Congress in Hyderabad and Goa.

T-Cloud Workshop

Organized a cloud workshop for the IT heads of all government departments, covering various aspects of cloud technology.

DCentrum Workshop Series

Partnered with Dcentrum community to conduct a one-day workshop on Hyperledger.

The Things Conference

Partnered with CyberEyeLabs to organize a 2-day event, 'The Things Conference' to explore future possibilities with LoRaWAN technology.

Cyber Security Conference

Partnered with Kenes Exhibition to organize a 2 day Cyber Security Conference in Hyderabad.

Blockchain Capacity Building Program

Partnered with CDAC and JNTU to launch capacity building programs for students and faculty on fundamentals of Blockchain Technology.

Emerging Technology Workshop

Organized workshop on emerging technologies for all government departments to create awareness on the technology trends.



Technology empowering Girls (TeG)

Organised by Library Division of NASSCOM Foundation in select libraries of Telangana State. Young women are trained to acquire or improve digital literacy skills and expand their understanding and use of technology in their day to day lives in order to connect to the world with

educational information, as well as new economic and entrepreneurship opportunities.

In the first leg, the initiative was rolled out at public libraries in Kamareddy, Mahbubnagar and Vikarabad. A total of 66 girls were trained.

Photonics Valley Corporation

Photonics project has been initiated by the Government of Telangana with an objective to create an ecosystem for nurturing an alternative computing paradigm by

mobilizing concerned stakeholders and related projects. A special purpose vehicle, Photonics Valley Corporation has been instituted to realize the goal of execution.



Catalyzing Innovation, Scale and Deal Flow

T-Hub enables and empowers an ecosystem hungry for innovation. It leads India's pioneering innovation ecosystem that powers next-generation products and new business models.



- t-hub.co
- THubHyd
- THubHyd
- T-Hub-Hyderabad
- THubHyd



PROGRAMS

Lab32

A six month long comprehensive incubation program, tailor-made for early-stage tech product startups; first cohort of Lab32 included about 70 startups, making it the largest incubation program in India

Fintech Arcade

First of the Arcade Series, Fintech Arcade program focusing on fintech startups seeking to scaleup by exploring new strategic partnerships; attended by 25 corporate and government organizations, and 11 startups

Global Bridge: Canada-India

Canadian Digital Media Network and Communitech partnered with T-Hub to help high-growth Canadian tech scale-ups do business in India

Agro Innovation On The Periphery With Stanley Black & Decker

T-Hub, in association with Stanley Black & Decker, did an exciting program "Agro Innovation on The Periphery with Stanley Black & Decker," for agritech startups

Otis Innovation Challenge

Otis, the vertical transportation division of United Technologies Corporation, in partnership with T-Hub, sought innovative solutions to integrate with elevators, escalators, and travellers (moving walkways)

Raising Young Innovators Through Conceptual Research Experience

The Rural Electrification Corporation (REC) joined with T-Hub to build the Innovation Platform for Renewable Energy with an aim to empower student innovators

Merck Hack2hire – An IoT Hackathon

T-Hub invited Full-Stack Developers & System Architects experienced in IoT & cyber security to apply for the Hack2Hire program to help enhance the talent pool of Merck towards implementing digital projects in the Life Sciences and to help make life-enhancing medicines a reality

UTC Hack2hire

T-Hub in partnership with United Technologies Corporation (UTC) invited cyber security professionals to apply for the Hack2Hire program.

HDFC CSR Grant

HDFC partnered with T-Hub and awarded four of the T-Hub's Lab 32 startups with grant money that could be used for business development of the startup

T-Hub Ecosystem News

StaTwig, a blockchain startup was one of the 6 companies, from more than 100 applications across 50 countries, selected by UNICEF for its Innovation Fund

AnyTimeLoan.in, secured Non-Banking Financial Company (NBFC) Peer-to-Peer (P2P) license from Reserve Bank of India

Sanshodhan, an E-Waste Exchange, part of T-Hub's Lab 32 program was recognized as a "Highly Commended" startup by the World Economic Forum

GlamEgo, a beauty discovery platform & subscription service, received funding of ~ \$500K

MyGate, an app providing security solutions to gated societies, raised INR 65 crore in Series

Online rent management platform, **Paymatrix** raised \$100K

Donatekart, a transparent online donation platform, raised seed funding of \$360K

CNBC TV18 telecasted two detailed episodes featuring T-Hub



T-Hub got its new CEO in **Ravi Narayan**. He brings more than two decades of experience in the startup and innovation ecosystem. In his last role, he was the global director of Microsoft for Startups organization.



High Profile Visits

- Abdullah bin Zayed Al Nahyan, the Foreign Affairs and International Cooperation Minister, UAE
- Linda Dessau, Governor of Victoria, Australia
- Mark Field, Minister of State for Asia and the Pacific at the Foreign & Commonwealth Office, UK
- Philippe De Backer, Belgian Minister for Digital Agenda, Telecom and Postal Services
- Bulelani Magwanishe, Deputy Minister - Trade and Industry; Government of South Africa
- Nicole Girard, Consul General of Canada
- Katherine B. Hadda, Consul General of U.S.
- Uchiyama Kojiro, Consul General of Japan
- Vijay Inder Singla, Minister of IT, Government of Punjab
- U.S. Congresswoman Terri Sewell and Congresswoman Dina Titus
- Bruno Maboja, Procurement Officer, United Nations
- Raj Sabhlok, President, Zoho Corporation
- Yukio Saegusa, Chief Digital Officer, Bridgestone
- Tony Fadell, served as the Senior Vice President of the iPod division at Apple Inc and founder Nest Labs
- Delegation from US Congress, Japan External Trade Organization (JETRO), Government of Madhya Pradesh, Government of Uttarakhand, journalists from Africa, and many more

Accelerating Skill Development

Telangana Academy for Skill and Knowledge (TASK,) an initiative from ITE&C department, is a non-profit organization that aims at bringing a synergy between the government, the academia and the industry with an objective to enhance employability quotient of youth in the state and to provide quality human resources and services to the industry.

Nearly 3 lakh youth skilled across Telangana since inception



Major Initiatives

- **Vaccines Skill Development** Pilot for students of life sciences
- **IT MOOCS** for Polytechnic and Degree college students
- **Masterstroke- Entrepreneur Talk** series for MBA and Engineering colleges in collaboration with Telangana State Innovation Cell (TSIC)
- **Archibus training** and **Drones workshop**
- Extended TASK membership to B.Ed colleges
- Relaunched **ESDM project**
- **Skills on Wheels** in association with Steinbeis to skill rural youth in solar technology
- **Army skilling** program to train youth to enter Indian defense forces
- Chosen by CISCO as its Academic Support Centre

Category	2018-19
Registered Colleges with TASK	558
New Students Registered with TASK	36,382
Students Skilled through TASK Initiatives	45,302
Total Faculty Skilled through TASK Initiatives	1,145
Total students skilled by faculty trained by TASK	8,264

Awards



TASK welcomes its new CEO, **Shrikant Sinha**, the Former CEO of NASSCOM Foundation. He has 30+ years of global experience in education, training & skill development.



Higher Education Council Award for Skill on Wheels



1 Year Service Award by CISCO



Vocational Excellence Award by Rotary Club of Hyd - Deccan



India Innovation Award by Steinbeis, Germany



TASK has been selected as a centre for Cambridge English Assessment.



Engineering students and 10 faculty members cleared ServiceNow Application Developer Certification Exam. Telangana is the first state to pilot the ServiceNow Application Developer Program in India.

Testimonials

TASK has provided Soft Skills program at our college from which I learned many things – to be confident, how to face interviews and more. Through TASK, I also got an opportunity to attend the interview with Infosys and I am very happy that I got placed in Infosys. I'm very thankful to TASK for giving me such a wonderful opportunity.

J. Gana Krishna Sai
Student, Gauthami Degree and PG College, Nizamabad

It was a very enriching experience for me personally and professionally to be involved in the inaugural edition of Technical writing for aviation graduates conducted by TASK. We are positive that this will contribute to their employability quotient.

Ms. Kim-Chua
Asia Faculty, Skilling Implementation Partner, Editorial Team Member, Embry Riddle Aeronautical University, Asia.



A Dedicated Platform for Women Entrepreneurs

As a step towards advancing the economy through participation of women, the Global Entrepreneurship Summit (GES) 2017 hosted in Hyderabad was themed on “Women First, Prosperity for all”.

Identifying the need for a dedicated platform to support and guide Women Entrepreneurs during the summit, the Government of Telangana conceptualized “WE Hub” and announced its inception on 8th March 2018.

- wehub.telangana.gov.in
- WeHubHyderabad
- WeHubHyderabad
- WeHubHyderabad



Launch of WE Hub Facility

On March 28th 2019, WE Hub has launched its facility, a key milestone in its journey, which accommodates and reflects the inclusive values to enable women entrepreneurs to thrive.

WE Hub facility offers -

- 50 coworking desks, and flexi-seating capacity
- Cabins, Meeting rooms and Conference rooms on a book-per-use basis
- Mothers' room
- Child play area
- 30-seater auditorium



Vision —

To promote Women Entrepreneurship by way of Incubation, Access to Government and Ecosystem Building.

Initiatives, Partnerships and Achievements

Access To Government

WE Hub's current focus is to operationalize and create awareness on existing schemes available, specifically to Women Entrepreneurs in partnership with Government Departments.

- Curated a step-by-step approach to facilitate operationalization of credit facilitation schemes. 16 entrepreneurs were sanctioned with loan amounts ranging from Rs. 2 lakhs to Rs. 1.92 crores.
- Launched a registration application on the Mee Seva portal which will be serviceable online and at all Mee Seva centres across the state.
- Partnered with Mission for Elimination of Poverty in Municipal Areas (MEPMA) and Society for Elimination of Rural Poverty (SERP) to select high-potential women entrepreneurs, and provide the support required to scale-up.

Ecosystem Building

WE Hub has recognized the need to broaden the funnel to increase the pool of women in entrepreneurship by way of increasing the participation of Women in the Economy.

- Concentrated efforts are being made towards girls in STEAM, Women in leadership and Entrepreneurship.
- Hosted 10 specific events, participated in 17 events and onboarded 30+ strategic partners.
- Partnered with corporates to work with their Diversity and Inclusion initiatives - currently working with P&G to develop a "Women in Manufacturing" program and Microsoft Garage to promote Girls in STEAM.

Incubation

WE Hub's premier incubation program

- Received 245 applications for incubation program; 26 were selected
- Provided entrepreneurs with the necessary skills, interventions, opportunities and support required to scale-up.

The start-ups have jointly reached great milestones:

- Start-ups have won prestigious awards including BIRAC Grant by Department of Biotechnology, Women Transforming India by NITI Aayog, USIBC (US-India Business Council), Samsung Global Startup Acceleration Program
- 3 start-ups have raised funding during their Incubation period
- 13 Start-ups have reported an increase in their customer acquisition rates
- 11 Start-ups have significantly grown their team size
- 2 start-ups have launched physical stores, and 3 start-ups have launched their online platforms

WE Hub Partnered with several corporate and international partners to conduct Corporate Innovation Programs, Accelerator programs, Start-up challenges.

- Launched a social enterprise accelerator program with Australian High Commission
- Conducted a Women Pitch Competition with US India Business Council
- Worked with P&G to conduct a Corporate Innovation Challenge – "Biz Arena"





Strengthening Electronics Ecosystem

Telangana State Electronics Policy came into force in 2016 to evangelise the Electronics System Design Manufacturing (ESDM) ecosystem in the state and country.

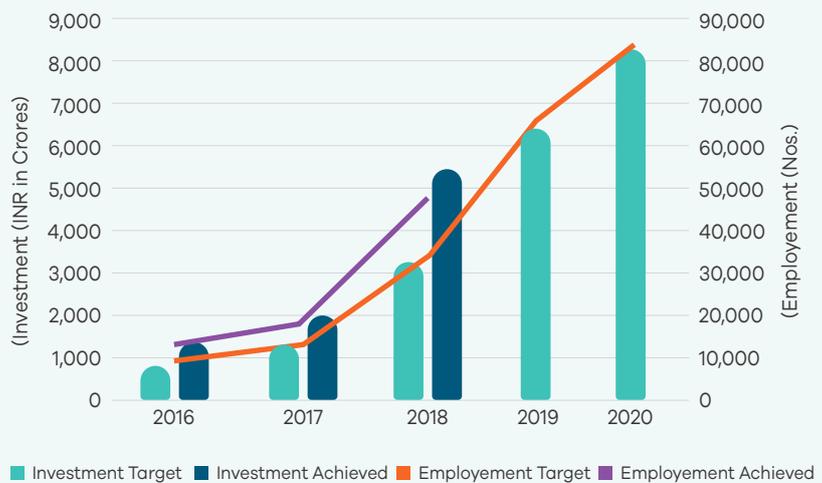
The Telangana State Government has set an ambitious target of crossing INR 6000 Crores of Investment in ESDM in the State by 2019 and it is moving towards achieving it by attracting investments into the two of its ESDM clusters (EMC) at E-city and Maheshwaram, with a total of more than 912 acres of notified land.



Plug and Play Model EMC Unit — 3,00,000 sft of state of the art plug and play built-up factory space to be ready by September 2019.

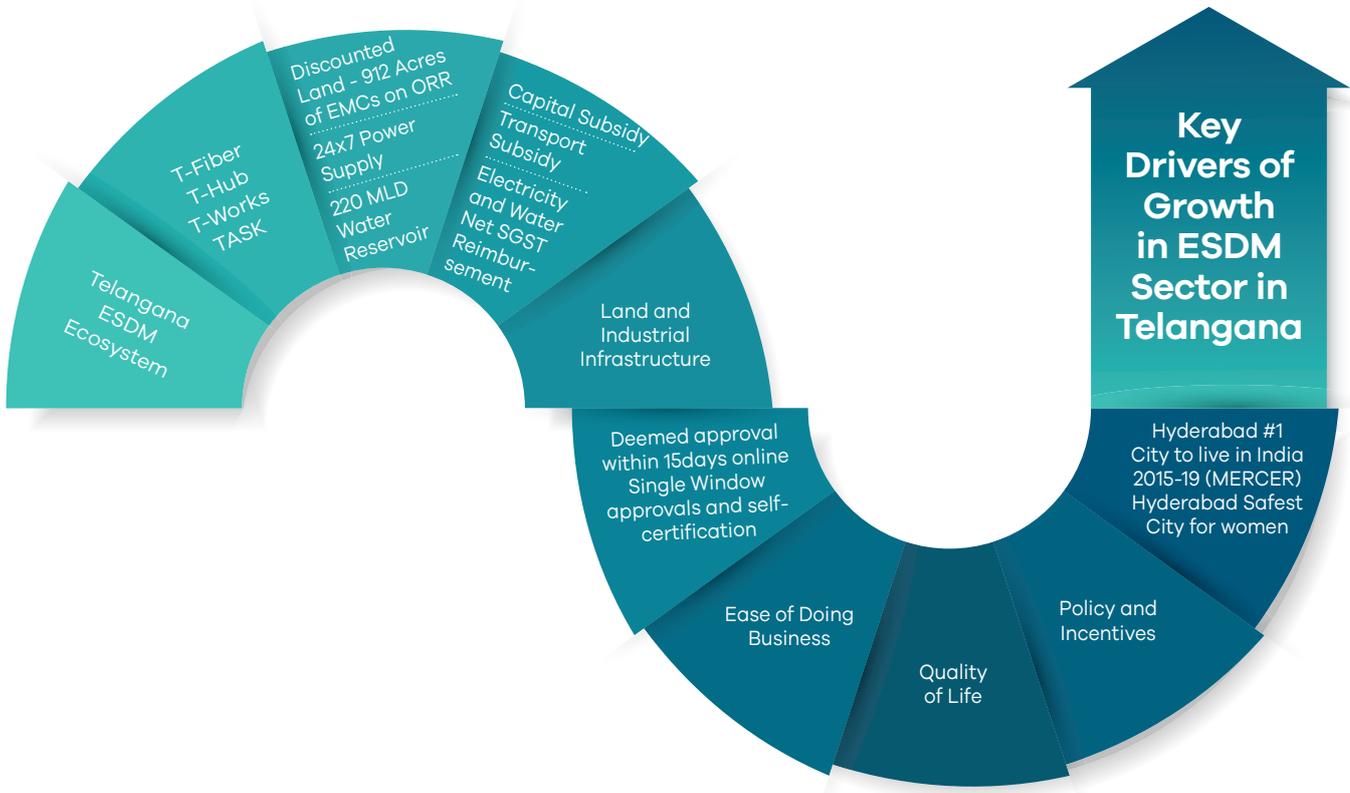
Telangana's Electronics Target vs Achieved Investment and Employment since inception of the Telangana State Electronics Policy 2016.

Source: Information Technology, Electronics & Communications Department, Government of Telangana Report 2019.

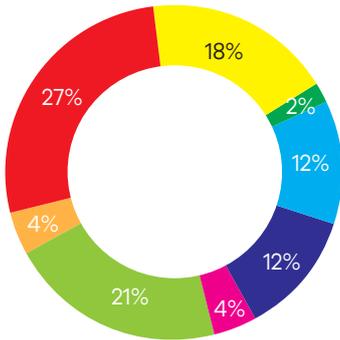


Local Electronics Manufacturing Ecosystem in Telangana to Boost the ESDM Growth

Industry Type	No. of Units	Investment (USD Mn.)	Employment (Nos.)
Micro, Small & Medium	74,120	5,439	1,015,740
Large Units	2,091	10,222	669,047

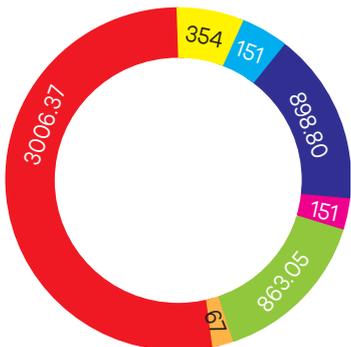


Sector Wise - Projects Approved



- Telecom Products
- E-Waste
- LED - Lighting
- Mobile Mfg
- Packaging & Films
- Power Adapters
- Consumer Electronics
- Printed Circuit Boards

Sector Wise - Investments (INR Cr.)



- Telecom Products
- LED - Lighting
- Packaging & Films
- Printed Circuit Boards
- Consumer Electronics
- Mobile Mfg
- Power Adapters

EMCs in Telangana

Industrial Infrastructure for Electronics Industry

Out of the 3300 acres of centrally approved EMCs about 30% are in Hyderabad. 910 acres close to Hyderabad Airport have been designated as EMCs zone. Two EMCs, E-City in Raviriyal and another at Maheshwaram, have received final approval from Government of India (GOI) with Rs. 400 crore sanctioned for infrastructure and common facility development.

E-City: Electronic Manufacturing

- Electronic manufacturing cluster at Raviriyal in Rangareddy District.
- About 3km from Outer Ring Road, Hyderabad, forms part of proposed ITIR (The Information Technology Investment Region)
- Air, Road and Rail network, International airport at 7km.
- Well-developed educational, social and rural infrastructure in the catchment area about 602 acres and has 220KV substation.

Maheshwaram: Electronic Hardware Manufacturing

- EHM (Electronic Hardware Manufacturing Cluster) is being developed at Maheshwaram in Rangareddy District about 10 km from Outer Ring Road, Hyderabad, forms part of ITIR
- Close to E-City, Air, Road and Rail network, International airport at 14km.
- Developed educational, social and rural infrastructure in the catchment area about 310 acres.
- The proposed investment is Rs. 800 crores and to provide 14,000 direct and 83,400 indirect employment
- The EMC projects are being implemented with funding from state government and Govt of India.

MoUs signed

Foxconn Industrial internet company, ICEA (India Cellular and Electronics Association), CDC (Century Development Corporation, Taiwan), Mentor Graphics, OPPO.

India's Largest Prototyping Lab

T-Works, a unique initiative of the Government of Telangana, is India's largest prototyping centre for electronics, electromechanical and mechanical start-ups.

tworks.telangana.gov.in

[TWorksHyd](#)

[TWorksHyd](#)

T-Works aims to create and celebrate a culture of hobbyists, makers and innovators. The upcoming facility will lower the barrier to prototype development and create a dense and diverse community of makers, artists, entrepreneurs, and experts working under one (very large) roof.



T-Works will make prototype development faster, cheaper and simpler. The 78000 sq ft facility will have over 200 machines across 11 sections, scheduled to be fully functional by June-July 2019.

Events



Maker Faire Hyderabad 2018

- T-Works hosted city's first and country's largest Maker Faire in November 2018
- More than 15000 visitors including 200 makers from 21 cities in India
- Sonam Wangchuk, a Ramon Magsaysay awardee participated in the closing ceremony



Makers Federation Round Table Discussion

Hosted by T Works, the round table aims at bringing together people representing a diverse set of organizations such as NITI Aayog AIM, Fablabs, Makerspaces, Private maker community, and corporate Makerlabs.

Product Design And Fabrication

Prototyping Support



AdOnMo, a taxi top advertising startup, canopy made 5x lighter and more aerodynamic



Designing an ergonomic, handheld water-quality monitor for shrimp farms for Thybolt Technologies.



Award

The creators of IMLI - a Maker Faire Project received "Promising Designers Award" at RAW Collaborative, Ahmedabad.

Meetups, Initiatives and Announcements

- Hardware startups meetup with Katarina Ilic, Co-Founder of Voltera.io in collaboration with T-Hub

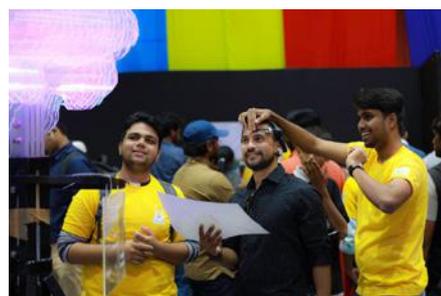


- Hosted stakeholders meeting
- Launched an Online Forum to connect makers, fabricators, entrepreneurs, manufacturing services and others in the hardware community
- Launched Product Design Services
- Compiled Of Online Vendor Directory, with a list of all hardware service providers in and around Hyderabad.

Maker Faire 2018



Children learn vacuum forming on a machine built by a T Works team member.



Microsoft Garage's Installation - The Brain



The Wind Tube section - very popular in the children's section



TELANGANA STATE
INNOVATION CELL

Fostering Innovation Driven Technology in Telangana

- www.teamtsic.org
- TeamTSIC
- TeamTSIC

The Telangana State Innovation Cell (TSIC) was set up in 2017 to promote the culture of Innovation and Entrepreneurship in the state. TSIC aims at promoting Innovation in Government departments and organizations and also build a culture of Innovation from the school stage.

The Innovation Cell is headed by the Chief Innovation Officer, Phanindra Sama (Co-founder, and Ex-CEO of redBus.in).

The first cohort of Innovation Fellows began its operations on May 1st, 2018 and has been working on 6 main focus areas including: Incubators, Innovation beyond Hyderabad (working with Rural/ Grassroots innovators), VC Connect, Media and Communications, Community Building and Introduction of Innovation and Entrepreneurship at School level.



IT Minister Sri KT Rama Rao flagging of TSIC's 'Intinta Innovator' (Innovator in every home) campaign

Accomplishments

01

Out of the selected T-200 during the Startup India Telangana Yatra, 50 have gained confidence and exposure to start their own startup, 25 teams received mentorship.

02

Facilitated the Setup of 4 incubators including OPPO, MJ HUB (Mufakham Jah College, Hyd), NMIMS Innovation Center and Edventure Park by MS Education.

03

Facilitated Library Subscription of Innovation Magazine from Palle Srujana in all the districts across Telangana.

04

Helped more than 70 Innovators to apply for AGNii Invest India to commercialize their innovations.

05

Organised VC Speaker Series which provides a platform for visiting VCs based out of Hyderabad to interact with startups at a larger scale

Major TSIC Initiatives



Government Mentor Program

Initiated to build familiarity between start-ups and Government officials, wherein Govt officials provide mentorship to startups for providing market access to startups.



Startup India Telangana Yatra

- Launched with an attempt to promote entrepreneurship in Tier II and III cities of the state.
- Took place in 12 districts
- 624 ideas pitched; 201 ideas were selected for the finals.



ఇంటింటా ఇన్నోవేటర్స్ Campaign

- Reaching out to every member of every household to encourage them to think of themselves as problem solvers.
- Seeks to change the mindsets of individuals towards innovation and entrepreneurship by encouraging them to believe in their capability to innovate.



Change Makers Bootcamp

- Organized a "Change Makers Boot Camp" in Hyderabad for 100 School children and 20 Teachers from different schools
- Provides the necessary spark to the students and Teachers who would eventually become Changemakers of the State.

SaaS Conference

- An exclusive founder-centric event
- Empowers SaaS startups and to help them crack the growth hacks of the SaaS industry
- Real conversations, immersive learning & meaningful networking.

ATL Incharges Meetup

- Organized a session to create a knowledge sharing platform for incharges of all the Atal Tinkering Labs in the state.
- 239 schools in Telangana have got ATLs and 60 of them have received the funding till now.



To Educate, Enlighten and Empower

T-SAT — the satellite TV network operated by Society for Telangana State Network (SoFTNET) under the aegis of the Department of ITE&C telecasts programmes on education, employment, healthcare and agriculture among other subjects, through its two channels **Vidya and Nipuna**.



softnet.telangana.gov.in
tsatnetwork
tsatnetwork
tsatnetwork



Achievements and Initiatives

- Telangana is the only state in India that is using the satellite communications for distance learning, effectively.
- SoFTNET received **80G Certificate**. Under this 50% of tax exemption will be given to the donors.
- Received a donation from Telangana State Mineral Development Corporation(TSMDC) and Stree Nidhi Credit Cooperative Federation Limited.
- Hosted "Roundtable on Curbing Fake News" organized by the Digital Media wing of ITE&C Department
- Expanded the outreach by broadcasting programs on healthcare and livestock development
- Special Programs with tributes to legends of Telangana covered by T-SAT "Jalasagarudu Vidyasagar Rao Pradhama Vardhanthi", "Dasarathi jayanthi programme", "Dr.Narayana Reddy Jayanthi program", "Prajakavi Kaloji Program", "Professor Jayashankar Yadilo", "Jalasagarudu Vidyasagar Rao Jayanthi"
- Special Interview with civils topper - Anudeep Durushetty
- Special Awareness Live Programme by Gutha Sukender Reddy on Raithu Bandu & Raithu Beema Schemes.
- Special program by T-SAT on Kaleshwaram project
- Special program by T-SAT "Shishir - A disabled success story"
- Special Coverage on "Women of India Organic Festival 2019"
- Special Coverage on Women's Day Programme "Bhoomika"
- **T-SAT YouTube channel has 3,00,000+ subscribers**

2018 Program details

In-house programs

Group-II	213
EAMCET,NEET,IIT	502
Gurukula	293
Policet	60
Swatantra Swaram	16
IBPS	40
Current Affairs	81
Spoorthi	15
Entrepreneur skills	11
Balyam Badram Bavitha Bangaram	78
Forest Udyoga guide	101
TRT	663
RRB	67
TET	12
Spoken English	86
TSPSC & TSPLRB	50
Agriculture	46
Animal Husbandry	8
Arogya Mitra	20
Bangaru Bathukamma	1
Dasarathi Special program	4
Dr Narayan reddy Jayanthi special	1
Haritha Haram	7
Jalasagaraudu vidyasagar rao	
Jayanthi special program	1
JEE-Normalization of Procedure	2
Live interaction with collector	4
Mana Singareni	22
Mantri tho mukamukhi special live	2
Pariksha pai charcha-spl prgrm	6
Prajakavi Kaloji special program	4
Professor Jayashankar Yadilo	1
Shishir -a disabled -special program	3
Siri daanyaalatho	
sampoorna aarogyam	4
Special Lives	9
SSC pai avagahana program	14
Telangana Janapadam	4
Telangana Kavitha Sapthaham	5
English for all	86

2542

Knowledge Partners

DR BRAOU	522
CCE-Live	145
CCE-Playback	132
MCRHRD	92
MGNREGS	66
MGNREGS-playback	14
MSME Special program	6
Panchayath Raj	42
SCERT Special Live	7
SCERT-Live	63
SCERT-School	103
SCERT-TTP	193
SIET special Live	18
SIET-digital classes	522
Tribal Welfare	8
Tribal Welfare Live	3
TSWREIS	114
WD&CW	16
WD&CW special live	4

2070

Total 4612

T-SAT YouTube Channel Statistics

From 02-06-2018 to 20-04-2019

On 02-06-2018 On 20-04-2019



Important Visits



Assam IT Minister's visit to SoFTNET



Tamilnadu School Education Director visits SoFTNET to setup similar Educational channel in Tamilnadu, "Kalvitholi Thalachi".



Assisting the Digital Revolution

Telangana State Technology Services (TSTS) is the Nodal Agency for consultancy and hardware & software procurement services for all government departments in the State

Special Projects

Key performance indicators

30 Clients

Govt. Schools, Colleges, Welfare Dept., Universities, RTA, GHMC etc.,

19,000

Devices deployed

8.5 Lakh

Registered Attendees

10 Lakh

Average transactions per day

15 Crore

Transactions till March 2019

Major Projects in FY 2018-19

Consultancy Projects (CS) & e-Governance Initiatives

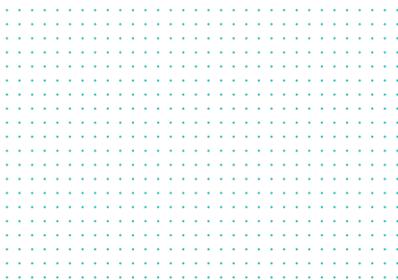
- For the FY 2018-19, more than 1.66 crore transactions are completed through MeeSeva SCA operations with average monthly transactions of 13.85 lakhs.
- Establishment of Command Control Center & Server Room in Telangana Police Units
- Identification of Master System Integrator (MSI) for implementation of Telangana Fiber Grid Project
- Identification of Service Provider for Transport Department for the implementation of Online issuance of Pollution Under Control Certificate (PUCC)
- Digital Mobile Radio Equipment for Telangana Police.
- Setup, Operations & Maintenance of Call centre and Scanning & Digitization of Records for IGRS Dept
- Technical support services in Establishment of e-learning Class Rooms in the MJPTBC Welfare Residential Educational Institutes. Technical support services to Panchayat Raj & Rural Development and Telangana RERA

Hardware & Office Automation Projects (HWP & OAP)

- Digital Audio Conference System in CM Camp Office.
- Hardware procurement for Hon'ble High Court of Judicature, Commercial Taxes Dept., Transport Dept., Telangana Police Dept., Panchayat Raj Dept., Revenue Dept., State Election Commission, National Health Mission, IGRS, SERP etc.
- Procurement of Laboratory equipment for Telangana Pollution Control Board.
- Supply of AADHAR Enrolment Kits for School Education Dept.
- Procurement of Survey Equipment to I & CAD Dept.
- Procurement of Security equipment for Prisons and Correctional Services Dept.

Infrastructure & Networking Projects (IIP)

- Provided IT hardware and technical support during visits of Hon'ble President of India and Hon'ble Prime Minister of India
- State Wide Area Network (SWAN) for Telangana (O&M)



Digital Connectivity across the State

T- Fiber project aims at establishing a state-of-the-art digital network infrastructure that is long lasting, resilient, secure, scalable, and carrier-grade to provide affordable, high speed broadband connectivity from State Headquarters to all homes and enterprises in the State of Telangana.

Milestones

Trenching & Ducting and Chambers & ABDs

Trenching and Ducting (KMs)

Apr-18	Mar-19	Progress
27625	62533	34908

Installation of Pre-Cast chambers (Nos.)

Apr-18	Mar-19	Progress
5112	12026	6914

- Identified the Master System Integrators (MSIs) after an elaborate and meticulous Expression of Interest (EoI) and Request for Proposal (RFP) processes
- Submitted the revised DPR to USOF/DoT and waiting for the final approval for implementation of the project by Telecom Commission.
- RFP tender process is on for Third Party Auditor (TPA) Agency which would be responsible for the audit of Active and Passive Infrastructure for Telangana Fiber Grid Project.

Technology Demonstration Network (TDN)

As part of T- Fiber, a demonstration network called Technology Demonstration Network (TDN) is created.

- to showcase the capabilities of T-Fiber
- to integrate existing G2C and G2G services onto the network and to provide a platform for various Government and private organisations to build applications in future

Events Under TDN

Jadooz – India's First Rural Entertainment & Education Zone an edutainment centre is located in Thumullur village, Ranga Reddy district. The initiative is aimed at giving a state of the art contact centre for skill development and education using the same zones. The skilling and education platform would be in conjunction with Telangana Academy of Skill and development (TASK).



Citizen Engagement through Digital Media Platforms

Digital Media Wing is responsible for connecting and engaging with citizens, disseminating information on the digital media platforms.

Social Media Analytics

Telangana CMO



Reach
1,51,93,703

Followers
6,83,109



Reach
1,63,44,906

Followers
5,58,443

IT Minister



Reach
73,30,521

Followers
4,63,186



Reach
1,69,71,828

Followers
5,02,546

Portals

- As per the request of Govt. of India and in pursuance of the directions of Chief Secretary, a decision was taken to move District Websites to S3WaaS (Secure, Scalable and Sugamya Website as a Service) platform developed by NIC. Nine District websites are currently on the platform.
- Agriculture website – The Telugu version website adheres to all the Localisation guidelines of the GTGW and effectively caters to the informational/ service needs of farmers in the vernacular language.
- T-Web Portal launched on 1st June, 2018

T-Web Project

- 50 Websites/ Portals are complying with the mandatory Guidelines for Telangana Websites (GTGW).
- 34 departments, 221 distinct services and 87 distinct services listed on the T-Web Portal (<https://tweb.telangana.gov.in/>)
- As part of the Sugamya Bharat Abhiyan (Accessible India Campaign) websites/ portals are being made to comply to accessibility guidelines of the GIGW.

State Portal Analytics

(From 1st April, 2018 to 31st March, 2019)

Users

28,15,848

Page Views

72,21,660

Sessions

35,41,968

No. of Sessions per User

1.26

Pages per Session

2.04

Events & Initiatives



Roundtable On Curbing Fake News

- Digital Media Wing conducted a Roundtable on 'Curbing Fake News' on 7th August, 2018, in Hyderabad in the backdrop of fake information-induced mob lynchings have claimed about 30 lives in the country.
- Senior officers from Police Dept., ITE&C Dept., representatives of Press Council of India, Telangana Press Academy, prominent media houses, Technology Intermediaries, Cyber Security experts, Psychologists, software engineers, social activists took part in the Roundtable.
- The Roundtable deliberated on how the spread of fake news through social media can be curbed by using new technological interventions and creating awareness through outreach programmes.



Twitter Workshop

Held "Effective Use of Twitter in Governance" workshop for Government officials on 11th July 2018 in partnership with Twitter India. The Workshop highlighted the various ways in which the micro-blogging platform could be leveraged by various Government agencies. Various best practices and some advanced Twitter tools were showcased.

Ensuring efficient CSR implementation

T-Social Impact Group (TSIG) is an initiative to attract, mobilize and incentivize financial investments into inclusive and sustainable development projects from local, national and international organizations.

Collaborations

- Haritha Haram Drive along with GHMC on 30th August, 2018. Over 800 volunteers of 12 corporates participated in plantation drives in 6 locations.
- Livelihood training projects for 160 youth by Ascendas in partnership with Nirmaan
- Livelihood training project for 460 women living in shelter homes by HSBC partnering with Nirmaan
- Novartis has adopted Langerhouse Lake and Manchirevula Lake. Persistent has come forward to restore Rangalal Kunta Lake
- Cognizant provided aesthetical touch to the schools and anganwadis by painting them with the support of corporate volunteers

Meetings

- With Trade Associations such as Nasscom Foundation, FICCI, CII and HYSEA
- Three Focused Group Meetings of T-SIG covering Haritha Haaram, Lake Restoration and Bio-Methanation from GHMC, Livelihood Training for Women at Shelter Homes from WDCW Department, Education and Livelihoods for Youth and Women from T-SAT
- Aggregators' meeting: Attended by organizations such as Samhita, GoodEra, Nudge Foundation, UNICEF, United Way Hyderabad, YouSee and Daan Utsav.

Partners' details

Corporates:	60
NGOs & SEs:	100
Government:	7
Industry Assns:	5
Aggregators:	3

MoU Signed with GoodEra for research on trends of CSR spending; creating awareness on CSR policies and laws

Events & Meetings



TASK mobile vehicle - Skills on Wheels —



3rd anniversary celebrations of Arcesium —



Laid foundation and unveiled the pylon for IT & Industrial Park at Divitipally in Mahabubnagar —



Minister KT Rama Rao launched Payswiff Android Powered Point of Sale (POS) device —



1st anniversary celebrations of T-SAT Network at T-SAT Office in Hyderabad —



Minister KT Rama Rao laid foundation stone for IT Tower & Innovation Hub at Nizamabad —



Inaugural event of International Blockchain Congress held at HICC, Hyderabad —



Chris Daniels, CEO of Whatsapp and Shivnath Thukral, Head, Public Policy Division, Facebook- India called on Minister in Hyderabad —



Kalyan Krishnamurthy, CEO of Flipkart called on Minister KT Rama Rao in Hyderabad —



GE Appliances FirstBuild, Government of Telangana and T-Works signed an MoU —



H.H. Sheikh Abdullah Bin Zayed Al Nahyan, UAE Minister of Foreign Affairs and International Cooperation visited T-Hub Hyderabad —

Events & Meetings



EPAM India's Hyderabad Digital Engineering center Inauguration —



Minister KT Rama Rao handed over loan sanctions facilitated by WE HUB to 16 women entrepreneurs —



James Huang, Chairman of TAITRA called on Minister KT Rama Rao —



Launched Telangana State Innovation Cell's Startup India Telangana Yatra in Hyderabad —



Tasleem Arif, R&D Head Oppo Mobile India, met Minister KT Rama Rao —



Shashi Reddy, Vice President of Engineering, Qualcomm met Minister KT Rama Rao —



Salesforce EVP, Govt. Affairs, Eric Loeb & Director, Govt. Affairs Shweta Rajpal Kohli called on Minister —

Events & Meetings



Wipro's Tarang Lab launch in Hyderabad —



Inauguration of Flipkart Data Center at Hyderabad —



Global Entrepreneurship Congress —



Govt. of Telangana and Telangana State Aviation Academy signs Tripartite MoU with Cyient —



UKIBC signed MoU with the Govt. of Telangana —

Events & Meetings



GE Appliances FirstBuild, Govt. of Telangana and T-Works signed an MoU —



Foxconn Industrial Internet Co. Ltd. chosen Hyderabad to set up an Advanced Industrial Artificial Intelligence Research and Development Center —



Oppo signs MoU with Govt. of Telangana —



Oppo opens its largest R&D center outside China in Hyderabad —



Ola signs MoU with Govt. of Telangana —



Micron Technology Inc., announced investing upwards of Rs 300 Cr in Hyderabad —



T-Works, TASK, and Siemens Business Join Hands To Set Up World Class VLSI Institute in Telangana —

Promoting Transparency in Governance

The centralized data portal hosted 141 Datasets and 194 resources. The ITE&C Department has made the Open Data website accessible to technology enthusiasts by making the datasets obtainable through APIs.

Open Transit Data

An effort to convert data of transport agencies into Global Transit Feed Specification (GTFS) formats and make them publicly accessible thereby making Hyderabad the first Open Transit City in the country.

Hyderabad Metro Rail Limited (HMRL)

Locations of the Stops, Schedules and Fares for the two operational routes in Global Transit Feed Specification (GTFS) Format

TSRTC

Route sequence of about 73,000 bus stops in about 1200 routes in the Hyderabad City Zone (GHZ). Mapping of the Geo-locations for the Bus Stops is in progress

High-Value Datasets

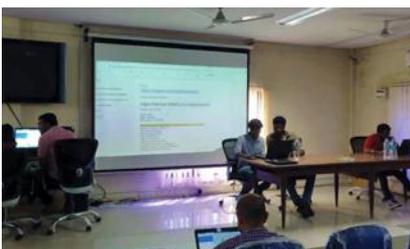
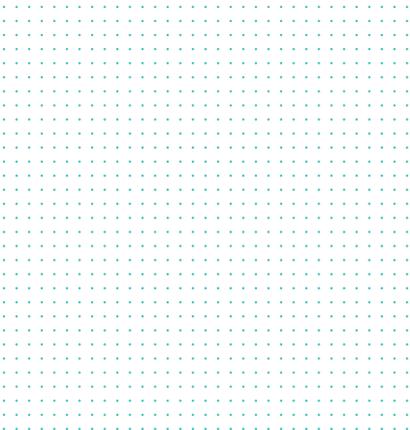
- Agriculture Marketing Department Data
- Daily Market Yard Prices for years 2016, 2017, 2018
- Geo-Locations of the Market Yards across the state
- Daily Weather Data from 5,584 Weather Stations. Temperature, Cumulative Rainfall, Humidity, and Wind Speed.
- Transportation Department
- Road Transport Authority (RTA) — Transport Dealers Data, Vehicle Registration Data, Vehicle Life Tax Data, Vehicle Fitness Data, Permit Data, Vehicle Online Sales Data
- Important datasets of the following Govt. entities have been collected through their websites/ portals: CDMA, SSAAT, MEPMA, WMC, MAUD, Adult Education Department, Board of Intermediate Education, Environments and Forests
- All the datasets can now be accessed via APIs.

Partnerships

Ola entered into an MoU with ITE&C Dept. to run various pilot projects on using mobility data to improve governance related to transportation in Hyderabad city.

Workshops

Mapping of the TSRTC bus stops and routes in Hyderabad at JNTU Hyderabad





Jayesh Ranjan, IAS

Principal Secretary to Government

Information Technology, Electronics &
Communications Department Government
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