

Telangana State Trade Journal

EXPLORING NEW TRADE FRONTIERS

VOLUME - 5

ISSUE - 3

MARCH, 2020



Read

Trade

Export



TSTPC

EXPLORING NEW TRADE FRONTIERS

TELANGANA STATE TRADE PROMOTION CORPORATION LIMITED

D.No. 5-10-174, Shakkar Bhavan, 2nd Floor, Fateh Maidan Road, Hyderabad-4

Phone: +91 40 23237591, Fax: +91 40 23231249, Email: info@tstpc.org, web: www.tstpc.org



Hon'ble Sri Mohammed Mahmood Ali, Deputy Chief Minister of Telangana, Hon'ble Sri V. Srinivas Goud, Minister of Prohibition & Excise, Sports & Youth services, Tourism & Culture and Archaeology, Hon'ble Sri. Devari Mallappa, Chairman TSTPC, Sri E.V. Narasimha Reddy, Joint Managing Director, TSTPC, Sri J. Raja Ram, Chief General Manager, TSTPC, Sri E.Satyanarayana, Chief General Manager TSTPC and other officials - TSTPC Diary Inauguration Event.



Hon'ble Sri. Devari Mallappa, Chairman TSTPC, Sri. Jayesh Ranjan I.A.S, Principal Secretary of the Industries & Commerce(I&C) and Information Technology (IT) Government of Telangana Sri. E.V. Narasimha Reddy, Joint Managing Director, TSTPC, Sri.J.Raja Ram, Chief General Manager, TSTPC, Sri. E.Satyanarayana , Chief General Manager TSTPC, Shakthi M Nagappan, Director, Life Sciences and Pharma at Government of Telangana and other officials - TSTPC Calander Inauguration Event.

MONTHLY TRADE JOURNAL

Telangana State Trade Promotion Corporation Limited.

Volume : 5

Issue : 3

March : 2020

CONTENTS

Telangana economy shining bright	3
Adani Elbit to set up centre in Hyderabad	4
GMR enters into strategic partnership with Groupe ADP for airports business	5
Novartis opens Asia's first innovation hub in Hyderabad	6
K T Rama Rao inaugurates BE's SEZ plant near Hyderabad	7
BridgeLabz Solutions to set up new centre in Hyderabad	8
Providence opens Global Innovation Centre in Hyderabad	9
N Coldpressed opens facility in Hyderabad	10
Hyderabad-based Ozonetel plans voice bots	11
CII's Centre for Innovation, Entrepreneurship and Startups in Hyderabad	12
T-Hub opens doors to Australian market	13
17th edition of BioAsia 2020 ends on high note	14
Government of Telangana, MedTech Connect launch Project Tej	15
Officials must focus on effective implementation of govt schemes: KCR	16
Hyderabad's life sciences sector to get major boost	17
Governor stresses on improving nutrition	18
Hyderabad safe for women: Director General of Aeronautical Systems	19
CFA opens application for women in investment initiative	20
Amazon Cares organises STEM Celebration Day	21
Gadget makers should effectively deal with e-waste	22
Indo- Bulgarian ties have traditionally been close	23
Hyderabad's IICT can reverse engineer COVID-19 drug in 3 months	24
Telangana to seek Rs 603 cr Compensatory Afforestation Funds Act fund	25
Telangana Tourism launches three chopper tourism packages	26
100 EV charging stations to come up in Greater Hyderabad region	27
Telangana budget 2020: Harish Rao presents Rs. 1.82 lakh crore	28-36

Managing Editor :
E. VENKAT NARASIMHA REDDY
JMD, TSTPC

Associate Editor :
Dr. M. SAILAJA
Manager, TSTPC

The views expressed in this publication are those of the individual authors and do not reflect the views of the TSTPC.



Message from the Joint Managing Director's Desk

It is giving me a great pleasure that **Sri Thanneeru Harish Rao, Honourable Finance Minister** had presented the **State's budget for the year 2020-21 for Rs 1,82,701.94 crores** on 8th March, 2020 under the able guidance of **Sri. K. Chandrasekhar Rao, Hon'ble Chief Minister** with 25% increase over the previous year. The priority was given to the development of **Panchayat Raj & Rural Development, Social Welfare schemes, Urban Development, Rythubandu scheme – welfare of farmers, Housing, Aasra pensions and drinking water etc.**

The economy of the **State is growing @ 8.2% for the year 2019-20 @ constant prices** of 2011-12 whereas the **country's economy is growing @ 5%**. In fact the country's economy growth has dropped from 6.1% to 5%. As per the current prices, the GSDP of the state has been 13.8% and above (which is 3.5% excess of the national economic growth) for the past four years inspite of global economic slowdown. The GSDP of the state stands at Rs 9,69,604 crores at current prices and contributes 4.76% of the country's GDP. **The State's primary sector has grown from 7.8% to 10.7%. The major growing sectors of the State include Crop (15.7%), Livestock (14.6%), Trade (11.6%), Public Admn (11.5%), Hotel industry (11.0%), Service transport (10.8%) and Real Estate (10.4%).** It is expected that the state GST is likely to increase from Rs 58,600 crores to Rs 75,260 crores. The Per capita income for 2019-20 for Telangana is estimated at Rs.2,28,216/- whereas the per capita income of our country is Rs.1,34,432/-. FICCI has commented that **"Telangana is the forerunner in growth."** This situation has led many investors keen to invest in the State.

AdaniElbit Advanced Systems India, a joint venture between Adani Defence & Aerospace and Elbit Systems (Israel), decided to set up a design and development centre in Hyderabad this year. Switzerland based global health care company, **Novartis** opens Asia's first innovation hub in Hyderabad. US based healthcare company **Providence** opened its Global Innovation Centre in Hyderabad with an investment of over **Rs 700 crores**. US based technology-enabled legal services company **Epiq Global** has set up its global capability centre in Hyderabad to make India as its technology hub and brain power to operational excellence to deliver better platforms in artificial intelligence. India's largest biopharmaceutical company, **Biocon** is expanding its research operations in Phase II, besides looking at manufacturing opportunities in Hyderabad. **Syngene International Limited**, a contract research organisation commissioned the first phase of its new R&D Centre in Hyderabad. The plant of **Biological E Limited** and its new Typhoid Conjugate Vaccine is SEZ at Genome Valley in Kothur (V) set up with an investment of Rs 300 crores was inaugurated. Hyderabad based Cold pressed juices maker **N Coldpressed** has opened a production facility at Cherlapally, Hyderabad.

Confederation of Indian Industry (CII) is setting up a national centre for Innovation, Entrepreneurship and Startups in Hyderabad. Indo-American Chamber of Commerce (IACC) AP & TS recognised Hyderabad is emerging as **aerospace and defence hub**. T-Hub announced its partnership with in **Q Innovation**, a global open innovation ecosystem headquartered in Sydney, Australia with operation in India. **Tablez**, an organised retail arm of Lulu Group, having presence in food & beverages, lifestyle, apparel and toy sectors is looking at expansion across key market of India including Hyderabad.

The above developments are strong indications that the State Government is making its best efforts for the growth of the economy of the state and promotion of investments in the State for creating more and more employment opportunities to the youth. I am sure that this tempo of efforts would be a continuous process for the best prospects of the State.

E. Venkat Narasimha Reddy

Telangana economy shining bright

Hyderabad : 29th Feb 2020

Telangana remains the shining star recording a growth of 12-14 per cent even as the nation managed to grow 4.7 per cent. This puts the onus on Telangana government to initiate more measures for the growth to be sustainable in the years to come, according to Sangeeta Reddy, president, FICCI and also JMD of Apollo Hospitals Group. "Telangana is the forerunner in growth. However, this kind of growth is not new to a south Indian State," she said. While the country registered a growth rate of five per cent the previous quarter, it has fallen to 4.7 per cent as per the official data given out. "A five per cent growth compared to other countries is good. But we were 7.1 per cent in the Q2 of FY 2019. But that has fallen to 4.7 per cent in Q3 of FY 2020. The growth has fallen for six consecutive quarters and that is a matter of concern," she said at an interaction meet held at FTCCI. While growth is seen in some domestic segments, the global conditions are not favourable. Now, the latest corona virus episode is also bludgeoning the economy further.

However, if some labour reforms can be initiated, India can turn the disruption in manufacturing sector and China can be turned into an opportunity to up the domestic production. This will generate additional employment, Reddy said adding that about 1.2 crore youth are getting added to the job market every year and corresponding number of jobs are not being created. Lack of employment opportunities would lead to social unrest, she said.

The government now should look to raise about Rs 1.5 - 2 lakh crore and pump that into the economy even if it meant breach of fiscal deficit targets. This will boost consumption, which is slackening in rural and urban areas. There is a need to create small pockets of growth to trigger the economic cycle, she said.

There is a need to improve the ease of doing business further as about 8,000 permissions are required by the MSME sector. If these are relaxed or streamlined, the time and resources can be used for upping the productivity. "We have been in survival mode. Now, we should get into an abundance mode. Then, we will be able to invest more in the CSR, art and culture related aspects," said Reddy.



Adani Elbit to set up centre in Hyderabad

Hyderabad : 7th Feb 2020

Adani Elbit Advanced Systems India, a joint venture between Adani Defence & Aerospace and Elbit Systems (Israel), will set up a design and development centre in Hyderabad this year. The company had earlier established a private unmanned aerial vehicle (UAV) manufacturing complex at Adani Aerospace Park in 2018. The company is now looking to manufacture and export new UAV systems.

The design and development centre will focus on co-developing defence technologies aligned to the global requirements. The centre would also facilitate job creation for highly qualified R&D engineers to build future products, aligned to the needs of the armed forces. The JV entity had earlier invested \$15 million (over Rs 105 crore) in the Aerospace Park spread over 20 acres near Shamshabad, Hyderabad.

The only Hermes 900 production facility (spread over 50,000 sq ft) outside Israel, which was inaugurated in December 2018 in Hyderabad, has started exporting Hermes 900 Unmanned Aerial Platform to global customers. Hermes 900 is a combat proven multi-role unmanned platform with an endurance of 36 hours, payload capacity of 420 kg, altitude of over 32,000 feet (10km plus) with applications across civil, defence and homeland security.

The company's spokesperson said, "The Hyderabad facility is already operational and manufactures 'Herms 900' model for exports. The same facility will manufacture the new models. The company will continue to focus on export markets while developing Indian market in partnership with Elbit."

Mini UAV systems

On the sidelines of DefExpo 2020 in Lucknow, Adani-Elbit JV launched one of the largest export programmes for the production of hundreds of mini UAV systems for a global customer, with complete platform production and integration from Hyderabad, India. The JV has geared up to deliver the full spectrum of unmanned platforms to Indian Tri Services (Army, Navy and Air Force) and allied forces.

Elad Aharonson, EVP and GM- ISTAR Division of Elbit Systems said, "Our enduring relationship with Adani Defence & Aerospace has shaped our joint vision to make India a global hub for manufacturing and exports of the unmanned platforms." "We are working closely with Elbit Systems on various programmes and we are excited to take our partnership a step further," said Ashish Rajvanshi, head, Adani Defence & Aerospace.

'Hyderabad emerging as aerospace and defence hub'

Hyderabad: : 29th Feb 2020

Aerospace and defence are the thrust areas of Telangana government. More companies are looking at Hyderabad to set up their bases, as it has the people with right skill sets, infrastructure, vendor base and a proactive government. With GMR Aerospace and Industrial Park, Adibatla, Hardware Park, etc. the south of the city is becoming home to 4-5 clusters in these sectors, said Praveen P A, director, Aerospace and Defence, Government of Telangana.

Hyderabad will be a hub of aerospace and defence where all activities, including



design, R&D and manufacturing will happen. The government is having a multi-pronged approach with tie-ups with universities to setup need based education programmes, setting up of centres of excellence and promoting a lot of startups and related activities, he said, while speaking at a round-table meeting organised by Indo-American Chamber of Commerce (IACC) AP & TS. The meeting was attended by 35 top executives comprising of MDs, directors, CEOs and CFOs representing the aerospace, defence and allied sectors.

Shrikant Badiga, chairman, IACC-AP & TS, said that aerospace and defence sectors play a very important role and to compliment and accelerate economy more industries need to come up. Hyderabad has a very good potential. Most international companies are looking at Hyderabad as a potential hub for setting up their facilities. "With the encouragement and the positive policies of Telangana government, a huge eco-system of aerospace and defence sectors can be created in Hyderabad. There is a very investor-friendly environment in the city. IACC would coordinate with American companies to bring in a good number of them to develop a very positive ecosystem and further strengthen it," Badiga added.

GMR enters into strategic partnership with Groupe ADP for airports business

Hyderabad : 20th Feb 2020



GMR Infrastructure Limited (GIL) has entered into a strategic partnership with Groupe ADP for its airports business. GIL has signed a share purchase agreement pursuant to which Groupe ADP will hold 49 per cent stake in GMR Airports Limited (GAL) for an equity consideration of Rs 10,780 crore, valuing GAL at the Base Post Money Valuation of Rs 22,000 crore. This equity consideration

comprises of Rs 9,780 crore towards secondary sale of shares by GMR group; and Rs 1,000 crore equity infusion in GAL. Groupe ADP has also pegged earn-outs up to Rs 4,475 crore linked to achievement of certain agreed operating performance metrics as well as on receipt of certain regulatory clarifications over next five years. Thereby, total valuation assuming all above earn-outs are successfully consummated, may reach Rs 26,475 crore on Post Money Basis.

The first tranche of Rs 5,248 crore will be received by GMR Group immediately. This money will help deleverage the Group further and result in improved cash flows and profitability. As part of the terms of transaction, GMR will retain management control over the airports business with Groupe ADP having the customary rights and Board representation at GAL and its key subsidiaries.

The deal will unveil a first of its kind airport development and operations platform globally. This will also open up new opportunities for route development, enhanced expertise in operations, retail, IT, innovation, engineering and many more areas. As per 2019 passenger statistics, the combined passengers handled by GMR Airports and Groupe ADP stands at 336.5 million, the highest across the world.

GM Rao, chairman, GMR Group said, "The partnership with Groupe ADP is in line with GMR's business direction to become a global airport developer and operator. We have been on a journey of defining airports of the future with key focus on passenger experience by leveraging enhanced technology and offering superior amenities. With Groupe ADP, GMR will have smoother access to global markets, opening up newer avenues of business growth."

Augustin de Romanet chairman and CEO of Aéroports de Paris SA-Groupe ADP stated: "The acquisition of a 49 per cent stake in GMR Airports fits within Groupe ADP's strategy. It sets a robust industrial partnership and enables Groupe ADP to build, only two years after taking control of TAV Airports, a unique worldwide network of airports with a solid industrial expertise and strong development capacities. This acquisition will constitute a growth driver in the medium term, and also a transforming position for the group in one of Asia's and the world's most dynamic and promising countries."

Novartis opens Asia's first innovation hub in Hyderabad

Hyderabad : 19th Feb 2020

Novartis launched Biome India, a digital innovation hub aimed at boosting the connection and interaction between Novartis and partners from across the digital ecosystem, from nimble startups and academia to the biggest players in the industry. The first in Asia, the Novartis Biome India will act as a bridge to the external ecosystem, enabling Novartis teams to better discover, develop and drive collaborations that transform innovative initiatives into impactful and scalable solutions for patients. By joining this global network, the Novartis Biome India can tap into the assets and expertise of the broader Novartis portfolio to have even greater impact, including access to anonymised data, customised residency programmes and personalised mentoring “India has a rich and vibrant technology community. Together, we have a fantastic opportunity to combine our scientific know-how with the expertise of tech players, big and small, to create digital solutions for patients, at scale,” Bertrand Bodson, chief digital officer, Novartis. “Partnerships are at the core of this effort.

The Biome's suite of end-to-end services will ensure we deliver on our commitment to both our internal teams and our collaboration partners.” “It is testimony to our technology ecosystem.

Our ambition is to use data and digital to improve and extend people's lives. We look forward to seeing the outcome of this initiative in the near future,” Sanjay Murdeshwar, country president, Novartis India. “We are pleased to have Biome India in Hyderabad and want to leverage this ecosystem to work with startups and innovators to disrupt healthcare in the country and perhaps the world. We will work closely with internal and external partners in pursuit of high value, potentially disruptive innovations,” said Naveen Gullapalli, head-Novartis Hyderabad.

Syngene opens new R&D centre in Hyderabad

Hyderabad: 17th Feb 2020

Syngene International Limited, a contract research organisation, commissioned the first phase of its new R&D centre in Hyderabad. The centre, located in Genome Valley, is spread across 52,000 sq ft with an initial strength of around 150 scientists. This is the company's first operational research centre outside Bengaluru. When fully commissioned by the end of this year at an investment of Rs 167 crore, it will cover a total of 94,000 sq ft and house around 270 scientists.



The centre was inaugurated by K T Rama Rao, Minister for Industries, IT, MA & UD, Government of Telangana, in the presence of Jayesh Ranjan, principal secretary, Industries and Commerce, Government of Telangana and Shakthi Nagappan, director (Life Sciences & Pharma) and CEO, Hyderabad Pharma City, together with senior leaders from Syngene.

Speaking on the occasion, K T Rama Rao said, “We are happy that Syngene International Limited has selected Telangana for setting up their new R&D centre. This is a testimony to one of the accomplishments of BioAsia which has been able to showcase the immense potential, opportunity, and support the state offers. We have been focusing on the life sciences sector and the Genome Valley was conceptualised to provide all the necessary infrastructure and support systems for life science R&D activities. Syngene’s presence is surely a boost for the State’s vision to be a biotech hub.”

Kiran Mazumdar Shaw, MD, Syngene International said, “We are delighted to set up our new R&D centre in Genome Valley, Telangana, recognised as a leading global biotech hub. I congratulate the Government of Telangana on their vision and pioneering efforts to create an environment that fosters the growth and development of the biotechnology industry.”

Jonathan Hunt, CEO, Syngene International said, “The inauguration of this site in Genome Valley today marks an important step for the company. With increasing demand for our research services, we needed to find a location that offered the right environment to drive scientific innovation and seamless delivery. This means not just having the ability to build, equip and maintain world class laboratories, we also need to be able to attract top scientists in chemistry, biology, biometrics and other disciplines. Genome Valley has all the requisite infrastructure and a comprehensive science eco-system to allow us to deliver cutting edge, innovative scientific research outside Bengaluru for the first time.”

Genome Valley is India’s first purpose-built cluster for life sciences R&D activities spread across 600 sq km. Syngene’s new R&D centre is located in MN Park at the heart of the Genome Valley. Consistent

with Syngene’s commitment to operate world-class laboratory practices, the new R&D centre is fully digitised based on an internet-based, innovative, analytical laboratory solution that enables anytime, anywhere, monitoring; remote and secure access; and minimises system downtime by monitoring the operational status of the systems. The centre also has other digitisation and automation features including electronic laboratory notebooks and analytical intelligence.

The building benefits from environment-friendly measures such as energy conservation through the use of solar power and limited plastic use. The safety features of the centre include laboratories built with fire-rated walls and panels, a dedicated flame proof area for storage of hazardous materials away from the laboratories and dedicated water lines for fire hydrant and sprinkler systems. Initially, the company will offer Discovery Chemistry services from Hyderabad. In the next phase, other research services will move to this centre providing research to the world’s leading pharmaceutical companies.

K T Rama Rao inaugurates BE’s SEZ plant near Hyderabad

Hyderabad : 17th Feb 2020

K T Rama Rao, Minister for Information Technology, Industries & Commerce, Municipal Administration and Urban Development, Government of Telangana, inaugurated Biological E Limited’s (BE) Plant and unveiled its new Typhoid Conjugate Vaccine (TCV) in the Special Economic Zone at Genome Valley in Kolthur Village on the outskirts of Hyderabad. The plant has attracted an investment of Rs 300 crore.

Addressing the gathering, IT and Industries Minister K T Rama Rao appreciated the expansion initiatives of Biological E Limited and said, “We are committed to making the State of Telangana number one State in terms of industrial growth and employment generation with a special focus on life sciences. In fact, these growth engines will not only boost the economy of the State but also improve the livelihood of people, who depend directly or indirectly on these industries. We are happy to see that this massive state-of-the-art

plant, the foundation stone for which was laid during BioAsia 2017, is getting inaugurated during this 17th edition of BioAsia today.”

Mahima Datla, MD, Biological E Limited said, “BE has invested around Rs 300 crore for building this plant, which is now ready for commercial production, on about 29 acres of land. This plant would generate employment opportunities for around 1,000 people. This new facility will help our existing vaccines plant enhance the production and manufacture new products, which are in the pipeline.”

Typhoid Conjugate Vaccine

Recently, BE received the authorisation from the health regulatory authorities of India to license and market a new Typhoid Conjugate Vaccine. The approval from the Central Drugs Standard Control Organisation (CDSCO) is based on a thorough assessment of the vaccine’s efficacy and safety profile. TCV is an injectable single-dose vaccine to be administered to children from six months old as well as adults and it contains Vi Polysaccharide derived from *C. Freundii* conjugated to CRM197 protein. The clinical studies conducted in India demonstrated that the safety and immunogenicity profiles of this vaccine are comparable to the other licensed and WHO Pre-qualified Typhoid conjugate vaccine.

This vaccine was developed in partnership with the GSK Vaccines Institute for Global Health, based in Siena (Italy), which first developed the asset and transferred it to BE in 2013. Subsequent developmental work on the vaccine was done by BE, including manufacturing process optimisation and scale up, pre-clinical studies and full clinical trials in India.

This vaccine will be manufactured in BE’s GMP manufacturing facilities in Hyderabad and could be commercially available within 3 months. With this authorisation from CDSCO the vaccine is now approved to be marketed in India, and it also allows BE to submit the vaccine for WHO pre-qualification (PQ) and registration in several other countries. This will help to expand its current portfolio of seven WHO PQ vaccines.

Dr Thomas Breuer, chief medical officer of GSK

Vaccines, commented: “Having this new vaccine approved is an important milestone for Global Health. It shows that GSK’s innovative and sustainable partnership model works to deliver vaccines based on GSK latest science to help protect people in developing countries against major health threats.” Upon pre-qualification by WHO, which is anticipated in 2020, this new vaccine is anticipated to significantly contribute to the unmet



public health need in developing countries by helping protect children against typhoid fever and by contributing to securing the supply typhoid vaccines.

BridgeLabz Solutions to set up new centre in Hyderabad

Hyderabad: 25th Feb 2020

BridgeLabz Solutions, an IP-driven incubation lab, aimed at nurturing engineering talent and ideas in the emerging technology space, plans to skill and employ over 2,500 engineers within FY20-21. Additionally, the company plans to launch new skilling centres in Hyderabad and Pune. Through its Maker Programme, BridgeLabz has supported the country’s technology ecosystem with over 1,100 skilled engineers trained and placed at companies such as ThoughtWorks, BookMyShow and Urban Ladder.

The company also actively encourages women engineers with multiple outreach programmes and partnerships, thereby securing a 45 per cent representation amongst its trained talent to-date. Speaking on the plans for expansion, Narayan Mahadevan, founder, BridgeLabz said, “Our next steps are multi-pronged, to tap into the latent potential of engineering talent from Tier 2 and 3 regions. We have identified Hyderabad as one of the major hubs where talent exists, where a training centre

in or around their hometowns will be a major benefit in preventing migration.”He added, “Our new labs will help us establish our presence in these cities along with surrounding areas, and further strengthen our goal of providing a sustained talent-to-company pipeline. With this, we are confident that we will be able to achieve our target of skilling and placing 2,500 engineers in top technology companies by the end of FY20-21.”

Providence opens Global Innovation Centre in Hyderabad

Hyderabad : 28th Feb 2020

US-based healthcare company, Providence, opened its Global Innovation Centre in Hyderabad, its first such move outside its home country. The \$25-billion company plans to invest \$100 million (over Rs 700 crore) in its India operations over the next four years. The centre will focus on engineering, modern infrastructure, data intelligence, digital innovation, cyber security, application development and support. The company set up its centre at Skyview (Madhapur), spread over 85,000 sq ft. To start with, it will house 350 employees, further expanding to about 800 in the next two years. On what attracted the company to



the city, Murali Krishna, SVP and country manager, Providence India, said, “Hyderabad is the fastest growing city in the world today and the most preferred investment destination. The city also created a vibrant startup ecosystem with incubators such as T-Hub and WE Hub. Robust infrastructure, availability of large talent pool, Telangana government’s industry-friendly policies attracted us to set up our centre”.

Echoing the same, Providence EVP BJ Moore, said, “We found talented engineers in Hyderabad with both technology capabilities and domain understanding of healthcare. We want to be a technology leader in healthcare and want to leverage the city’s capabilities”.

US Counsel General-Hyderabad Joel Reifman said in the last six months, several large US companies announced their investments in Hyderabad across verticals. The city gained its recognition both for its ease of doing business and for being the world’s most dynamic city.

IT and Industries Principal Secretary Jayesh Ranjan said, “Hyderabad continues to attract global capability centres (GCCs). The city saw a shift from merely being a back office base for multinationals to becoming a product development and innovation hub. Microsoft developed Windows 8 from its Hyderabad operations. In the last few years, Hyderabad attracted companies that work on new-age technologies”. Ranjan emphasised, Providence can extend its healthcare solutions, which the State government can use in its healthcare delivery systems.

Epiq opens global capability centre in Hyderabad

Hyderabad : 20th Feb 2020

US-based technology-enabled legal services company Epiq Global, which has opened its global capability centre in Hyderabad, is keen to make India and Hyderabad its technology hub and brain power to drive operational excellence to deliver better platforms and more artificial intelligence-enabled outcomes.



The Hyderabad centre will serve customers globally and the company's offices worldwide. The company operates in 15 countries with more than 80 offices and has 14 data centres worldwide, including one established in Hyderabad now.

On what the company will offer, Epiq president & CFO Vishal Chhibbar said, "Epiq has three main businesses-legal solutions (which helps customers do forensics, data discovery, e-discovery, document review and manage claims; operation solutions (to serve customers with document review or managing e-discovery or data management and other services); and court-specific solutions (dealing with bankruptcy, class action, mass tort and corporate restructuring). Both operations and technology support systems are going to be based in Hyderabad."

Epiq, going forward, will explore domestic market opportunities in the areas of document review and management, data management and e-discovery services. There is a potential to cater to India market and after 6-12 months of study, a decision will be taken if we can create an operational business unit targeting India as a market.

Sectoral demand

He pointed out that good growth is coming from General Data Protection Regulation (GDPR) compliance, globally. Epiq is moving up the value chain with transactional services, AI-enabled work and information governance. The US and Europe are showing growth prospects in information governance with a focus on how preventive actions can be taken before a breach can happen or litigation occurs. He added, "Epiq today manages 84 terrabytes of

data. We handle multiple court cases, litigations and e-discovery. Pharmaceuticals and electronics are some of the sectors where several litigations are happening, primarily centred at patents. We cater to 6,000 customers including law firms, banking, lifesciences and several other industries."

Product development

Epiq is already deploying artificial intelligence and data analytics. The company is building thought leadership on blockchain. Chhibbar said, "In 2019, we issued nine million cheques to different end customers for various court system claims. Today we are using a cheque payment system. We are looking at how we can develop much faster payment methods that will reach customers. We want to create a much more secure environment for court payments. We are working on this product now." He added, "Also, we have 14 data centres across the world, which we are managing data on our own premise. We are now looking at a dual technology of cloud-based data management in addition to data centres. The innovation centre in Hyderabad will play a key part here."

N Coldpressed opens facility in Hyderabad

Hyderabad: 25th Feb 2020



Hyderabad-based cold pressed juices maker N Coldpressed has opened a production facility at Cherlapally, with a capacity to make 2,000 litres of juices per day, which can further expand to 25,000 litres per day. The company

has invested Rs 3 crore so far in its operations and plans to invest further to meet its expansion needs. It is in talks with investors already. The facility spread over 10,000 sq ft, uses latest cold pressed machine, automated bottling line with date coding and labelling machines. Certified by FSSAI, the juices are made of fruits, vegetables, oilseeds, nuts, herbs and spices. The company is going to tap online food and beverage aggregators to enhance its volumes.



Amitesh Sharma, CEO, N Coldpressed, said- "We use 56 ingredients to make all of our variants. The formulation is chosen based on the purpose of the juice. We are going to use locally sourced produce. We have the capacity to make 1.5 lakh bottles a day at our facility, which is further expandable. We make mixed-ingredient juices, and not that are single ingredient-based." He added, "We are going to expand our B2C footprint in the near-term, going beyond our B2B focus catering to corporates. And we are contemplating to raise funds to meet this. We are also going to invest in packaging innovations. We are keen to integrate large number of farmers into our activity on direct basis."

The company, which started its operations in March 2017 has 40 employees and plans to expand its workforce soon. Inaugurating the facility, Telangana Industries Principal Secretary Jayesh Ranjan said, "At a time when most of the start-ups in the State are coming up in the technology space, it is good to see companies emerging from the health and wellness space as well. With massive irrigation projects being implemented by the government in the State, there is a significant surge in the agricultural produce. Food and beverage processing gives a boost to the agriculture sector and the efforts made by the State government." "Without losing the nutrients and vitamins, fruits and vegetables will be cold pressed using latest technology at the facility. Another major plus is that the farmers in the State will benefit as the company looks to source all raw material and ingredients locally. While the pharmaceutical companies in Hyderabad help people in curing diseases, companies such as N Coldpressed will offer preventive care solutions through nutritious and natural juices," Ranjan added.

Hyderabad-based Ozonetel plans voice bots

Hyderabad : 23rd Feb 2020

The growth of online retailers has pushed the envelope for quality customer service solutions. Whether it is by chatbots, voicebots or even providing individual customer care software, Hyderabad-based Ozonetel is doing all of that. Started at a time when e-commerce was at its nascent stage, the 2008-conceptualised company provides on-demand cloud communication and telephony solution to a wide variety of enterprises – both large and small. While it started as a voice platform for small and medium enterprises (SMEs), the company slowly expanded its operations to providing cloud-based contact solution and is now looking at venturing into voice bots and AI-powered Speech Analytics. "The changing nature of online businesses is also helping us redevelop our offerings from providing software for easily managing call centres to providing cloud telephony solution to our 1,000-plus customers across India, US, Singapore and Middle-East," said Murthy Chintalapati, founder and CEO, Ozonetel.

The recently launched AI-powered Speech Analytics Dashboard for Call Centers will allow call center managers to track and analyse on-going calls in real time. The dashboard tracks and displays a call center agent's speech rate, speech volume, and the customer sentiment on each call. It will allow manager to monitor on-going conversations in real-time.

Elaborating on their future plans, Chaitanya Chokkareddy, CIO, Ozonetel said, "While voice bots will form one part of our expansion, we are also aggressively looking at global markets even as we remain focused on India. About 80 per cent of our business comes from large enterprises and while SMEs need this channel, they have still not reached adaptability levels. We will also be looking at integrating local languages in our voice bots so that we can reach a large audience base." With about \$10 million Annual Recurring Revenue (ARR), Ozonetel is looking at doubling the revenue this year and it is hopeful that its venture into the international market and new solutions will support this growth.

CII's Centre for Innovation, Entrepreneurship and Startups in Hyderabad

Hyderabad: 25th Feb 2020

Providing a big boost to the startup ecosystem in Telangana, the Confederation of Indian Industries (CII) will be setting up a national Centre for Innovation, Entrepreneurship and Startups in Hyderabad. The centre is being set up through a partnership between Telangana Government, CII and former Infosys co-founder Kris Gopalakrishnan's trust Pratiksha. It will provide startups from varied fields an opportunity to connect with the 8,000 direct CII members for funding, mentorship and other support needs.



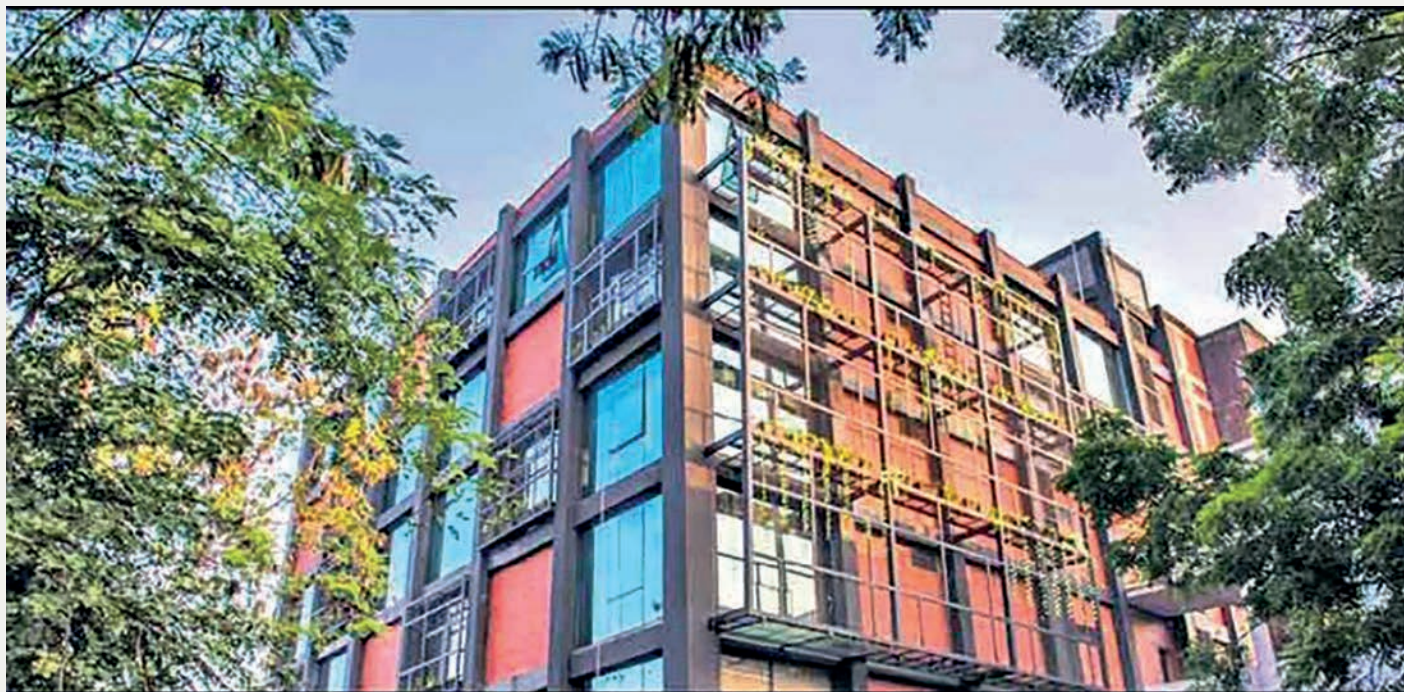
While the modalities of the centre are still being worked out, CII startup council chairman and Axilor Ventures chairman Gopalakrishnan said that the centre will be formally launched in April and it will be housed in the current T-Hub facility. “The centre will give an opportunity for startups from any field to get any kind of support – mentorship, funding, and go-to-market strategy. The centre is open to startups from across India with a special emphasis on Telangana. While technology-driven startups are growing in the country, the centre will be open to any kind of startup as CII has diverse member base,” he added.

The centre was announced at the CII Startup Connect which was organised by CII Telangana -Young Indians (Yi) Hyderabad in association with T-Hub. Elaborating on the centre, Telangana IT and Industries department principal secretary Jayesh Ranjan said, “The centre will currently work from T-Hub and will eventually shift to phase 2 building of T-Hub that is slated to be launched in July. This will be a terrific facility for startups and corporates and all the CII members – both direct and indirect — can form collaborations with startups through this centre.” He also added that Gopalakrishnan's trust Pratiksha will be spending Rs 7.5 crore for the centre. Gopalakrishnan also spoke about the 20th century being India's century and urged that there is a need to build research and innovation in the country. He said that about 65 per cent of the population is still living on less than Rs 100 per day earning and “if we want to build an equitable society then startups have an important role to play. About \$2 trillion worth of private wealth is there in India and less than 1 per cent is invested in startups. While foreign capital is important, but we also need to support our home-grown innovation”.

T-Hub opens doors to Australian market

Hyderabad : 7th Feb 2020

T-Hub announced its partnership with inQ Innovation, a global open innovation ecosystem headquartered in Sydney, Australia with operations in India. Both these organisations have joined hands to provide Indian growth-stage tech startups with business opportunities, market understanding and access to customers in Australia. In addition, this collaborative partnership would also enable soft landing /launchpad capabilities for Australian startups to explore and launch into the Indian markets.



T-Hub's CEO Ravi Narayan signed the MoU with inQ Innovation Global's CEO and Director Irfan Malik at Consulate General of India, Melbourne. T-Hub will now roll out a call for applications for startups across India looking to scale into the Australian market based on the specific industry segment and problem statements.

The selected startups will bag scale-up opportunities and get access to world-class infrastructure office space at inQ innovation at the Sydney Startup Hub in Sydney or at the Space Station Office in Melbourne and other cities across Australia. They can explore business growth and collaboration opportunities with prospective customers and other ecosystems in the Australian markets. Narayan said, "Our idea behind partnering with inQ is to create an umbrella of opportunities for Indian growth-stage innovative startups to scale up in the international markets. Additionally, international startups will have a platform for seamless entry to the Indian markets, which will bring more technological advancements to our country." Irfan Malik, CEO, inQ Innovation said, "This partnership will help accelerate, generate further momentum and deliver substantial outcomes under the "Australia India Innovation Bridge" program."

Lulu arm Tablez to expand in Hyderabad

Hyderabad : 14th Feb 2020

Tablez, an organised retail arm of Lulu Group, having presence in food & beverages, lifestyle, apparel and toy sectors, is looking at expansion across key markets of India, including Hyderabad. The company will have stores across its portfolio in the city and is evaluating various business sites. Cold Stone Creamery, Galito's, Springfield, Women'secret, Build-A-Bear, Toys "R" Us, Babies "R" Us, Go Sport, Yoyoso, Desigual, Courir,



and Oshkosh B'gosh are some of the brands that LuLu Group has in its portfolio.

Sharing the company's plans, Adeeb Ahamed, MD, Tablez, told, "Going forward, we want to bring all these brands into Hyderabad and other potential markets in India in the next 12-18 months. We have been looking at Hyderabad for some time and have gone ahead with two locations as of now for Cold Stone Creamery stores. Logistics plays a key role for us and we would like to have an area-wise strategy rather than spreading everywhere." Tablez opened two outlets of Cold Stone Creamery in Hyderabad one each at Banjara Hills and Begumpet, making them the 26th and 27th outlets in India, and the first set of stores in Hyderabad. The company holds franchise rights for Cold Stone Creamery. Headquartered in Scottsdale, Arizona, Cold Stone Creamery is owned by Kahala Brands. He added, "Hyderabad is developing at a rapid pace and we plan to launch three more stores here by May. We will be going for leased premises for all these stores."

The company plans to have 85 outlets by the end of 2020 in India and has set a capex of Rs 350 crore for a three year period between 2019 and 2021. Tablez employs 1,000 people now in the country and this number will double by end of the year. Pan-India, he added, "In addition to Telangana, we aim to have strong presence in Karnataka, Kerala and Delhi. We are already in Mumbai, Pune, Chennai and Chandigarh. We will primarily focus on tier-1 and tier-2 cities. This year, we will focus on consolidating our presence in cities where we already are."

LuLu Group International is a multinational conglomerate headquartered in Abu Dhabi, United Arab Emirates, that operates a chain of malls, hypermarkets, retail companies and finance companies. On the malls front, without getting into the specifics, he said, "We have made certain announcements for India. We are working on the announcements made. More and more malls will be opening this year."

17th edition of BioAsia 2020 ends on high note

BioAsia, Asia's largest Biotechnology and Life Sciences Forum and the three-day global bio-business convention on its third and last day concluded with a huge participation from industry, government, academia, and startups being part of the insightful deliberations and discussions on pharma, biotechnology, healthcare and life sciences industries.

The 17th edition of the annual flagship event of Government of Telangana, BioAsia, has witnessed the participation of around 2,100 delegates and visitors representing 37 countries. More than 100 high profile speakers and 800 corporates including 350 CXOs also participated in this summit. A record number of 2,000 partnership meetings held during the 3-day event which may lead to striking the strategic business deals in the near future. Speaking at the valedictory session at BioAsia 2020, Telangana Industries Minister KT Rama Rao said, the global bio-business forum has received an overwhelmed response from the delegates who have come across 37 countries and being actively participated in the wonderful global convention. I will look forward to see BioAsia 2021 which will

eventually be even bigger and better', he added.

Ashok Chandra Panda, Minister for Science and Technology, Government of Odisha graced as Guest of Honour of the event. During the valedictory session of BioAsia 2020, Jayesh Ranjan, principal secretary, Industries and IT, Government of Telangana said, "The 17th edition of BioAsia 2020 has witnessed an overwhelming response from the delegates who have participated in record numbers. The constant increase in participants signifies the importance of BioAsia among the leaders from global life sciences sector to collaborate and network towards the successful strategic partnerships with individuals and the companies across the globe. With this successful edition, BioAsia has so far witnessed a total of 18,000 number of business meetings while delegates participated from over 100 countries and we believe this trend will be continued further".

During her speech, Swati Piramal suggested the Telangana government to prepare 1 million girls well in science and math to join the life sciences industry to take this industry and the country forward as the state is a big pharma and biotech hub which offers tremendous opportunities for the women who can pursue their career in the male dominated industry. As part of BioAsia 2020, Intel has announced its 'Intel AI Applied Research Centre' in Hyderabad and KT Rama Rao officially inaugurated its centre from the dais of the global convention.

Minister also handed over land allotment letters to five companies - Jagore Life Sciences Pvt Ltd, Majik Medical Solutions Pvt Ltd, Arni Medica Pvt Ltd, Trident Technologies and Pulse Pharmaceuticals – which are going to setup their units in MedTech Park in Hyderabad.

Five startups win awards

As a part of the valedictory programme of BioAsia 2020, KT Rama Rao, Minister for Industries, Commerce and IT, Government of Telangana handed over startup awards, including a cash award, to five successful start-up companies selected from over 75 shortlisted companies and over 350 applications received.

As part of the Start-up stage event, top five start-ups including Lycan 3D, Callzy, Oncosimis Biotech, Heamac Healthcare, Flexmotiv Technologies were given an opportunity to showcase their innovative solutions that may likely bring in disruptions in the life sciences sector.

Government of Telangana, MedTech Connect launch Project Tej

Hyderabad : 20th Feb 2020

With an aim to provide a platform, which can enable aspiring entrepreneurs to test their innovative ideas in the field of medical technologies, the Government of Telangana and MedTechConnect, a platform founded by Cyient and Xynteo's India2022 coalition have joined hands together to launch a new initiative called Project Tej.

As part of BioAsia 2020, Asia's largest Biotechnology and Life-sciences forum, Telangana State's Research and Innovation Circle of Hyderabad (RICH) and MedTechConnect have signed a Memorandum of Understanding (MoU) to accelerate and support the indigenous innovations in medical technologies. Through Project Tej, medical technology innovators and device manufacturers can validate the usability of their devices in public health settings and gain access to public health channels. Project Tej testbeds will complement Telangana State's infrastructure projects, which include the Telangana MedTech Park and ensure that Telangana becomes a favorable destination for MedTech investments.

"Telangana State is now synonymous with innovation and technology. With this initiative, we want to use the expertise available in the State to ensure groundbreaking medical technologies can deliver quality healthcare for all," says Ajit Rangnekar, director general, RICH. Project Tej will accelerate the adoption of indigenous and cost-effective innovations in medical technologies in India's public health systems. This will be done by bringing together an alliance of industry, hospitals, startups, and ecosystem builders in the MedTech space.

"Implementation of Project Tej will help provide real-world access for companies to test and commercialise



their technologies. We hope this creates an encouraging environment for local startups to bring their products to the market,” says Dr BVR Mohan Reddy, executive chairman, Cyient. These testbeds will give MedTech innovators access to real-world clinical settings for faster validation of innovative, affordable technologies and also provide access to industrial networks and markets. The primary focus of Project Tej is to launch testbeds for large scale clinical validation, usability assessment, and business model evaluation in real-world clinical settings for late-stage medical technologies, provide structured mentoring from the industry on design, manufacturing, and commercial access, and facilitate market access to validated technologies in public and private healthcare channels.

Project Tej, a programme managed by MedTechConnect, has the support of over 25 institutions across India. On behalf of Telangana State, Research and Innovation Circle of Hyderabad and MedTechConnect partners Cyient and Xynteo have helped shape this initiative and are key partners in Project Tej. “Innovations are usually born out of necessity, and MedTech innovations can solve some of our most challenging healthcare issues. We need collaboration to drive these innovations to market and we invite support from Telangana State’s medical and technological fraternity to ensure the success of this endeavor,” says Subhashini Chandran, MD, Xynteo India.

Officials must focus on effective implementation of govt schemes: KCR

Hyderabad : 11th Feb 2020

Honble Chief Minister K Chandrasekhar Rao made it clear that the officials must set aside their personal priorities and instead, focus on taking forward the State government schemes closer to people. He asserted that in a democratic country like India, the officials are required to implement the decisions taken by an elected government of people. The Chief Minister was addressing the District Collectors conference being held at Pragathi Bhavan. The meeting was attended by Ministers and



senior officers of all departments along with the District Collectors and the Additional Collectors.

Explaining the State government's priorities, Chandrasekhar Rao said the State government was bringing new reforms and laws with a realistic approach after consulting subject experts and holding brainstorming sessions with the State legislators. "Implementation of the laws, policies and schemes introduced by the government should be given utmost priority. The District Administration especially the Collectors should ensure that the fruits of welfare and development should reach people," he added.

Issues pertaining to effective implementation of government schemes, timely redressal of public grievances, greater accessibility of the authorities to people and a responsible governance, are on the agenda for the conference. Further, effective implementation of new Municipal Act and new Panchayat Raj Act, besides the proposed new Revenue Act aiming to end land disputes, were among topics of discussion.

Hyderabad's life sciences sector to get major boost

Hyderabad : 18th Feb 2020

Hyderabad's emergence as a major hub for life sciences industry in Asia and as a destination of choice for global companies is set to receive a further boost with the State government chalking out plans to push the sector's growth from the present enterprise value of \$50 billion to \$100 billion this decade, said -IT and Industries Minister K T Rama Rao "This will also result in creation of 4,00,00

new jobs in the sector," the Minister said at the inaugural ceremony of the 17th edition of the prestigious BioAsia convention.

Pointing out that Hyderabad had already earned a name as the 'Vaccine Capital' of the world, he said the city's pharma sector manufactures more than two billion doses of vaccines every year and contributes to 1/3rd of the global vaccine output. "City-based Bharat Biotech developed the world's first typhoid Conjugate vaccine for children from the age of six months, which was prequalified by WHO last year," he said.

Life Sciences Grid

Stating that Hyderabad contributes to more than 35 per cent of the national pharma production, Rama Rao said there were over 800 pharma, biotech and medical technology companies in the State. "Our vision to double the growth in this decade is being supported by the Life Sciences Grid, the State government's unique plan to create a network of infrastructure, stakeholders, skilled workforce and efficient processes," he said.



"One of the key steps that we have taken as part of the grid strategy is to expand Genome Valley which is among Asia's largest Life Sciences clusters. Genome Valley 2.0 masterplan has been prepared and we are looking at improving the social infrastructure around the cluster," he said.

Welcoming Bengaluru-based Biocon's Rs 170 crore state-of-the-art R&D centre "Syngene" to Genome Valley, the Minister said he was delighted to know that this was Biocon's first centre outside Bengaluru and that the company had aggressive expansion plans in Hyderabad. "There cannot be a better endorsement for Hyderabad's ecosystem. I can already visualise Hyderabad serving as one of the largest global hubs for Syngene across their entire value chain," he said, adding that the entry of Syngene further consolidates Hyderabad's position as a global R&D hub.

Pride for Hyderabad

Rama Rao pointed out that companies like GVK Bio,

Sai Life Sciences and many others have significant footprint in the city and are constantly expanding their pharmaceutical services operations. "I am really proud of the fact that the city today serves more than 1,000 global innovators in their vision to develop innovative and affordable pharmaceutical products, which is a matter of immense pride for Hyderabad and a testimony to the city's growing R&D prowess. KTR who inaugurated Biological E's vaccine facility said the company has invested about Rs 300 crores and will employ more than 1,000 people in this facility. Last year, Sandoz commenced their development operations in Genome Valley.

Medical devices

One of the other initiatives under the grid strategy for Telangana is the Medical Devices Park, which is the country's largest medical devices park spread over 276 acres. Within a span about two years, over 20 companies are already setting up their manufacturing and R&D units.

A number of them are about to commence their commercial production at the park and Sahajanand Medical Technologies has chosen Hyderabad as the destination to set up Asia's largest stent manufacturing facility.

Hyderabad Pharma City

He emphasised that the largest initiative under the Life Sciences Grid is Hyderabad Pharma City, one of the flagship initiatives of the Government to create a global benchmark for sustainable industrial cities. Sharing the progress made on the project, he said, "All the planning works to establishment of Hyderabad Pharma City are complete and also all the statutory clearances including environmental clearance, which according to me is a major milestone, are in place. Government of India also has recognised the potential of Pharma City by according the status of National Investment and Manufacturing Zone. We are very close to land allotments to industries."

Digital medicine

Hyderabad is serving as a global hub for Novartis in their digital aspirations, in addition to their global development operations. With more than 5,000 employees in their digital operations in addition to about 500 employees in Drug Development Operations, Hyderabad has emerged as an important site for Novartis. Companies such as Sanofi and many others are also expanding their R&D

support and digital operations in Hyderabad. London School of Hygiene and Tropical Medicine has also chosen Hyderabad to set up their India outpost and this centre would also have a significant focus on data and analytics, in addition to clinical research.

Skilling initiatives

Telangana has partnered with United State Pharmacopeia on a skilling programme focused on data and quality standards. Based on the feedback from the industries and students, improvements are being made to skilling programmes with the commitment to scale up and also launch new training programmes around areas such as analytical chemistry, AI / ML in healthcare – particularly training for clinical data scientists, biological characterisation and manufacturing.

Establishing B-Hub

Telangana has earlier announced establishment of B-Hub, which will be first-of-its-kind scale up manufacturing facility in Genome Valley. The Department of Biotechnology, Government of India has agreed to partner with Government of Telangana in this endeavor. The project will be grounded in the next two months and will feature a growth phase park.

Fostering innovation

Emphasising innovation, infrastructure and inclusive growth being critical, KTR said there is a need to accelerate innovation and promote start-up culture within the industry. He said, "We recognise that medicine is moving from pills to cells and block-busters to niche-busters. Government of Telangana is committed to building capabilities of tomorrow and are planning to establish a world-class institution focused on curative therapies here in Hyderabad. We have partnered with the Center for Cell and Molecular Biology (CCMB), a premier R&D institution in this effort."

Governor stresses on improving nutrition

Hyderabad : 19th Feb 2020

Governor Dr Tamilisai Soundararajan said much more work needs to be done to alleviate the country from the problems of malnutrition. Speaking at the inaugural session of a two-day data user workshop on 'Comprehensive National Nutrition Survey' at



National Institute of Nutrition (NIN), she said a lot has been achieved in the country in terms of improving nutrition but a lot more need to be done. From her own experience as a medical practitioner, she cited cases where misconceptions and notions hindered people from embracing nutritional schemes and supplements that the government provides. “We would suggest pregnant women to take iron and folic acid tablets but they would not. When we ascertained they had a notion that consuming iron supplements would make the child in the womb dark. These notions are totally irrational

and we should strive to create proper nutrition awareness,” the Governor said. Many families discriminate between male and female children while providing nutritious food, she said. In many families gender-based discrimination is still rampant but the situation is getting better.

Survey

The Comprehensive National Nutrition Survey data was prepared and released by the Ministry of Health and Family Welfare (MoHFW) last September. The detailed State-wide nutritional status and diets report of children up to 19 years of all States was prepared for the first time by the ministry in collaboration with several agencies, including NIN. “Since we have State-specific data, stakeholders participating in the workshop will be oriented to use the data effectively to enhance efforts to promote nutrition and health,” Dr R Hemalatha, Director, NIN said.

Hyderabad safe for women: Director General of Aeronautical Systems

Hyderabad : 20th Feb 2020

Taking challenges as opportunities must be the way to go for women. Unlike men, women have many challenges to manage the way an artist in the circus has to manage a single wheel bicycle, said Dr Tessy Thomas, Director General of Aeronautical Systems, DRDO. Speaking at the Women’s Conclave and Awards 2020 held at HICC, she appreciated the Society for Cyberabad Security Council (SCSC) for conceiving the conclave which is in its second year. “I have been part of this city for 33 years and moved to Bengaluru recently. I can feel the difference of how Hyderabad provides a safe culture to women,” the senior scientist said.



Though women are 50 per cent of the population, even more in some countries, unfortunately they hold just one per cent of the world’s property. Women perform far better than their counter parts but still equality is a distant dream, she said. Women have many qualities unique to them such as multi-tasking, perseverance, dedication, creativity, passion, emotional intelligent etc. “So they must be encouraged,” she added. Actor Sai Pallavi said children need to be taught about respecting women from the early age. “It is the responsibility of parents to teach children how to treat women in the house and around them,” she said. Appreciating the Telangana Police and the specially the Cyberabad Police’s efforts for women safety, Sai Pallavi said, “Thanks for launching so many applications to protect ourselves. It does make us feel much safer”.

Cyberabad Police Commissioner and chairman of SCSC, VC Sajjanar said the city boasts of over six lakh surveillance cameras installed as an effective surveillance mechanism. It is almost 52 per cent of total cameras in the country. In her address, Swati Lakra, In-charge, Women Safety Wing of Telangana Police said, "We as police force do the best possible for providing protection to women. We need support from men too for effective policing". She outlined how technology has a greater role to play on women's protection. At the conclave, She M Power Awards were presented for the first time to women from various fields.

CFA opens application for women in investment initiative

Hyderabad: 24th Feb 2020

CFA Institute, the global association of investment management professionals, opens applications for its Young Women in Investment initiative. The 2020 programme is for 100 selected women from any educational discipline with minimum graduation as eligibility to apply. Applications will close when all 100 places on the programme are filled or on 8 March 2020, whichever is earlier. Eligible women can apply for the program at www.empoweringyoungwomen.cfa. "With the Young Women in Investment initiative, we are hoping to bridge the gap between the finance industry's need for diversity and women's desire to pursue a career in the industry," said Amit Chakarabarty, director, Institutional Relations, South & South East Asia, CFA Institute at a seminar organised on Career Opportunities in Financial Services for Women at St Mary's College in Yusufguda in Hyderabad.

The intensive four-week boot camps, which will take place simultaneously at centres in Mumbai and Bengaluru, include free room and board. Each boot camp will cover business skills and the basics of the investment industry, such as ethics, micro and macroeconomics, regulations, risk management, financial statements, securities, alternative investments, quantitative concepts, machine learning, financial modeling, with classroom sessions led by senior industry professionals. All participants who complete the boot camp will be offered a stipend-paying internship for three-to-six months at a leading financial institution in India, subject to certain conditions.

Top IITs and IIMs launch Consortium to boost Indian entrepreneurship

Hyderabad : 24th Feb 2020

Premier technical and management institutions in the country have joined hands to launch a consortium to boost Indian entrepreneurship ecosystem through high quality research in innovation, venturing and entrepreneurship. Called 'Innovation-Venturing and Entrepreneurship in India Network (iVEIN),' its founding members are faculty at IIT Madras, IIT Bombay, IIM Bangalore, IIM Calcutta and IIM Kozhikode. This network of institutions will leverage strengths of the partners and would work with other stakeholders such as incubators, government and investors to generate and disseminate knowledge. iVEIN has been launched on February 15 along the sidelines of 'Dialogue with Stakeholders' event held by SINE (Society for Innovation and Entrepreneurship) at IIT Bombay. Highlighting the salient features of this initiative,



Prof A Thillai Rajan, Department of Management Studies, IIT Madras, who is coordinating the initiative, said, “Innovation, venturing and entrepreneurship are getting increasing attention from policymakers. These three areas are expected to play a key role in the economic growth of the country in addition to strengthening India’s position as an innovation country. The iVEIN network will facilitate high-quality research in this field among the academic fraternity in India and create avenues for dissemination of the relevant knowledge through conferences and journal publications.”

“iVEIN aims at playing a larger, strategic role in the start-up ecosystem building beyond incubating start-ups. The network backed by academic rigour of premier institutions would help formulate knowledge in the fast-evolving entrepreneurial ecosystem in the country,” said **Keyoor Purani**, Professor IIM Kozhikode and Executive Director, IIMK LIVE.

Prof B Ravi, who heads the Desai Sethi School of Entrepreneurship at IIT Bombay, said, “Top educational institutions including IITs and IIMs have been active in nurturing innovation and entrepreneurship. The proposed network will create a strategic bridge between various stakeholders, strengthen the ecosystem and synthesise the knowledge that exist in silos among different groups.”

Prof Venkatesh Panchapagesan, chair, NSRCEL, the innovation and entrepreneurship cell of IIM Bangalore, added, “Academic incubators play a critical role and that iVEIN will help create a stronger platform for them to share best practices and take lead in promoting activities like research that are often neglected by the private ecosystem.”

Prof Vidyanand Jha, Professor of Organisational Behaviour at IIM Calcutta, said, “The network would catalyse the much-needed work to document Indian experiences in areas of entrepreneurship and innovation. It would also aid in creation of data-based knowledge and dissemination of such knowledge. This would give a fillip to entrepreneurship in the country by aiding both policy formulation and implementation regarding innovation as well as by helping managerial practice.”

Objectives of iVEIN network include: to create an interdisciplinary body of knowledge synthesising multiple perspectives, which would meet the requirements of policymakers, academic researchers, students, innovators, entrepreneurs, investors and all those interested in innovation and ventures; to track the contours of the vibrant innovation, venturing and entrepreneurship segment in the country and develop a holistic and analytical narrative on the dynamics that drive the development in these areas; to help in effective policy formulation at multiple levels; develop thought leadership for practice; to seed the creation of a society that will organise annual conferences, publish a journal, and architect a data repository in the areas of innovation and entrepreneurship. The immediate activity that would be taken up by iVEIN will be to publish the India Innovation, Venture and Entrepreneurship Report. Conceptualised as a biennial publication, the first report would be published in 2020 with the theme: Creating Successful Ventures. Institutes, organisations and individuals, especially policy makers, investment managers, practitioners and entrepreneurs with active interest in entrepreneurship, innovation and venturing are invited to join the network to facilitate and promote collaborative research.

Amazon Cares organises STEM Celebration Day

Hyderabad: 27th Feb 2020

Amazon Cares, a CSR initiative by Amazon India, today organised STEM Celebration Day 2020 in Hyderabad to encourage school children to experiment, innovate and develop an exploratory mindset through STEM learning. Around 250 students from 25 schools in Telangana displayed over 65 innovative projects on robotics, artificial intelligence, and agri-tech among others, developed through the training sessions conducted at Atal Tinkering Labs during the year.

Participating teams were awarded prizes as part of an on-spot contest for students in Junior and Senior category, and they showcased their STEM projects using the equipment at Atal Tinkering Labs. Students from Government High School, Rajendra Nagar, Hyderabad, bagged the first prize in Senior Category for their project on 'Air Quality Index' which helps in measuring the air quality. In the Junior Category, Zilla Parishad High School, Miyapur, Hyderabad, won the first prize for their 'Way For Ambulance' project which focuses on helping ambulances navigate through traffic, connecting to the traffic signals and ensuring that they turn green.



In addition, students from Little Flower School, Uppal, Hyderabad, won the first prize for their 'Robotic Line Follower' project. Some of the projects that were showcased by school children at STEM Celebration Day 2020 were Smart Blind Walking Stick designed to help blind people to detect and help navigate through obstructions in their path; Solar Tracker that can detect and align its direction to the direction of the sunlight; Automated Soil Moisture Control System which can automate the process of watering agricultural crops basis the moisture level of the soil and many more. "We recognise that the next generation jobs require a strong aptitude for STEM and with our initiatives, we are aiming to create a generation that can continue to build on the strong talent for the country," said Minari Shah, Director – Corporate Communications, Amazon India.

'Gadget makers should effectively deal with e-waste'

Hyderabad : 28th Feb 2020

Makers of various electronics products and gadgets should go the extra mile to get back the waste materials generated at the end of life of their products. The extended producer responsibility (EPR) should be implemented effectively, said K Srinivas, VP, Ramky Enviro Engineers. Speaking at a seminar on 'e-waste management – Sustainable development' organised by the Federation of Telangana Chambers of Commerce and Industry (FTCCI) at its premises here, he held the growing consumerism as the main reason for the e-waste to increase. With new models of TVs, smartphones and home appliances coming into the market, many customers are upgrading to these. However, they are discarding the old gadgets and appliances even if they have not reached their end of lifecycle. This is leading to faster depletion of the resources and piling of e-waste.

According to him, e-waste management was now mainly in the unorganised sector and adequate safety measures were missing in terms of handling and disposal of the waste materials. Better incentives were needed for those involved in waste collection, he said adding that there was a need for an efficient collection ecosystem with better accounting systems. Computers, phones, hard disks and other computer related accessories account for more than 70 per cent of the e-waste generated, he said. The key to reducing this lies in opting for repairs instead of going for new products, refurbishing, recycling, reusing and recovering the waste materials.

FTCCI VP K Bhakerreddy, senior VP Ramakanth Inani, Pollution and Environment Committee chairman K Narayana Reddy, GBK Rao, CMD of Pragathi Green Meadows and Resorts and others spoke.

'Indo- Bulgarian ties have traditionally been close'

Hyderabad : 5th Mar 2020

The Bulgarian National Day celebrations held at Park Hyatt and attended by E Eleonora dimitrova, Ambassador Extraordinary and Plenipotentiary and Dr. Y Kiran Kumar as Honorary Consul of Bulgaria representing the States of Telangana and Andhra Pradesh.

Also present on the occasion were Jayesh Ranjan, Venu Gopalachary, Ajay Mishra and officials from the British High Commission, Turkey, Afghanistan, Iran and others, according to a press release. Speaking on the occasion, Legislative Council Chairman Gutha Sukender Reddy said Indo- Bulgarian ties have traditionally been close and friendly.



US-based Ryan opens second tax services facility in Hyderabad

Hyderabad : 3rd Mar 2020

US-based global tax services and software provider Ryan has opened its second facility in Hyderabad. The new facility spread over 19,000 sq ft located at Salarpuria Sattva Knowledge City will support the company's growth plans in India. Ryan started its India operations in 2013 at the Ascendas V Park and today houses 400 employees. With the new facility, the total workforce will go up to 580 by end of the year.

The company that has so far invested \$3 million over the last few years in its India operations, has been providing global support from Hyderabad with data processing, market research, asset recovery, software development, human resource analytics, competitive intelligence, robotic process automation and business process management.

Computer Generated Solutions to add 300 people in Hyderabad

Hyderabad : 20th Feb 2020

US-based global provider of business applications, enterprise learning and outsourcing services company, Computer Generated Solutions (CGS), has expanded its operations in the city. It has opened its new 80,000 square feet facility in and plans to add 300 people to its existing headcount of 500 employees in the city in the next 18 months. The new office provides testimony to the growing talent pool availability in Hyderabad and it will act as a captive centre for CGS's global development team.



The company provides software solutions for mainly fashion and e-learning industry apart from providing BPO services to its clients. It has 21 offices worldwide with about 8,000 employees and has been in operations in Hyderabad for the last 17 years. "We started our operations in Hyderabad with a small team and over the years, we consolidated our team size to 500 as the existing space was not suitable for expansion. However, with our growing focus on India as a research centre, we are looking at expanding our team here and are looking at

adding 300 more people in the next 18 months. In addition, we are also looking at having a headcount of 2,000 people in Hyderabad in the next 5 years,” said Phil Friedman, president and CEO, CGS.

The Hyderabad centre was inaugurated by Telangana IT and Industries department principal secretary Jayesh Ranjan and US Consulate Hyderabad Consular General Joel Reifman. “The software and product development centre at Hyderabad is a vital component of CGS’s global aspirations and has a growing influence in the cyber security and augmented reality component of the business,” said Ranjan.

CGS is also looking at setting up a cybersecurity Centre of Excellence in its office in Hyderabad and is looking to hire experts for the same. It is also looking at working on AR specific products for its fashion and e-learning solutions. Globally, the company works with 2,000 clients out of which fashion sector specific clients constitute about 1,300-1,400 client base. It is planning to have 10,000 employees globally at the end of this year and wants to focus on markets other than US for the growth.

Hyderabad’s IICT can reverse engineer COVID-19 drug in 3 months

Hyderabad : 29th Feb 2020

City-based Indian Institute of Chemical Technology (IICT) has the ability to roll out a generic version of the COVID19 drug within a few months, in case multinational pharmaceutical companies refuse to sell or share coronavirus drug technology with India. At present, there are over 50 major pharma companies worldwide that have joined the race to develop a drug for the novel coronavirus. While the drug is still at least a year or 18 months away from the actual launch, the IICT researchers said that once the drug is launched they would be able to reverse engineer the technology and transfer it to Indian pharmaceutical companies for mass manufacturing.

Such innovation will also go a long way in reducing the costs of the COVID 19 drug, in case the pharmaceutical companies decide to sell their drug for a premium. “If there is any drug or drug for coronavirus available in the market, IICT will be able to develop the process in 3 to 6 months. Our researchers are world-class in reverse engineering,” Director IICT Dr S Chandrasekhar said. He said India is a leader in Chemistry and IICT researchers would be able to develop a generic version of an existing drug within months.

In case the pharmaceutical companies refuse to sell or share the drug technology in India, Parliament has the right to invoke ‘compulsory licensing’ clause, which will allow high-end laboratories like IICT to reverse engineer the drug and transfer the generic version to Indian drug manufacturers. Whenever there is a threat



to life in a population, Parliament has the right to dishonour global WTO agreements because a life-saving drug can potentially save a large number of lives. Under such circumstances, the country need not honour existing patent laws, Dr Chandrasekhar added.

Telangana to seek Rs 603 cr Compensatory Afforestation Funds Act fund

Hyderabad : 27th Feb 2020

Telangana, which topped the list of States that effectively utilised Campa (Compensatory Afforestation Funds Act) funds for rejuvenating forest cover, has decided to seek Rs 603 crore from the Centre for the next financial year. A decision in this regard was taken at the Campa executive committee meeting at Aranya Bhavan.

Additional Principal Chief Conservator of Forests (Campa) Lokesh Jaiswal said that the Telangana Forest Department had spent 99 per cent of the Rs 901 crore that accrued to the State under Campa during 2014-2019. He further said that the Centre had also appreciated the good work by the Telangana Forest Department in taking up and completing compensatory afforestation work. He also said that the department was first in line in submitting perfect reports and audit reports to the central government. He said that the department received proposals worth Rs 603 crore based on ground level stabilization of forest land, efforts, for the coming financial year and the proposals along with the approval of the committee will be sent to the Centre.

The executive committee chaired by the Principal Chief Conservator of Forests (PCCF) R Shobha also approved and expressed satisfaction over the ongoing works taken up at a cost of Rs 500 crore. Secretary Finance Sridevi, additional PCCF RM Dobriyal and others were also present.

Textile firms' body takes problem-solving to the next level

New Delhi February 25, 2020

Indian Texpreneurs' Federation seeks to spot pain points and offer remedial measures. While industry associations by and large take up their members' grievances with the

government and seek intervention, the Indian Texpreneurs' Federation (ITF) chooses a different line. Besides taking up such issues with the government, it looks at what went wrong and why, and sets for itself a mission for each year. "The government no doubt will remove the friction; but policy decisions take time," said Prabhu Dhamodharan, Convenor, ITF. "Entrepreneurs need to act much sooner, especially in this highly competitive environment. So we do a comparative analysis of the issue with member mills to identify the pain point and initiate remedial measures. Technology, for instance, cannot be wished away today but without proper training it cannot be put to beneficial use. We focus on specific areas to improve the overall business performance of the industry in the State." The ITF represents spinning mills and garment units based in Coimbatore.

Mission for 2020-21

Last year, the ITF focussed on improving the manufacturing and energy efficiency parameters of the textile sector, said Dhamodharan. "Our mission for 2020-21 is to push standalone spinning mills to move up the value chain, help create value through sustainable initiatives, appeal for support to resolve working capital issues, empower people and unleash their power," he added.

Elaborating on each of the focus areas, he said: "There is a clear trend of differentiation in margins between standalone spinning mills and semi-integrated/integrated units. The integrated units do better than the standalone ones and the difference ranged between 250 and 300 points in the bottom line (before taxes and appropriation). Within our member base of 87 lakh spindles, only 20 per cent have built integration as a business model." To help members move up the value chain, ITF will be setting up an advisory cell with industry and external experts, Dhamodharan said.

Developing sustainability

On the sustainability and value creation aspect, he said the textile sector has developed all the major aspects of sustainability, such as zero liquid discharge, efficient water management, waste reduction, use of renewable/green energy and energy conservation practices. "We have formed a committee to study the positive aspects of the sector for branding and positioning the units here as the most sustainable cluster in India," said Dhamodharan. On empowering people, he said: "Since the initiation of the ITF Leadership Academy last year, the Federation has

imparted training to 400 managers and supervisors. The training has helped bring about a huge transformation. We have therefore decided to extend the leadership training series to 1,000 managerial and supervisory employees to create a happy workplace.”

Telangana Tourism launches three chopper tourism packages

Hyderabad : 20th Feb 2020

This Mahashivaratri, fly on a helicopter from the city for a darshan of Lord Shiva at the historical Raja Rajeshwara Swamy temple in Vemulawada and along the way, witness the magnificent Mid-Manair dam from the sky. The tempting trip has become a reality with the Telangana State Tourism Development Corporation (TSTDC), in association with Telangana State Aviation Corporation, launching three packages for pilgrims. Apart from darshan and accommodation, those taking the helicopter rides will have the privilege of witnessing an aerial view of the Mid-Manair project, which is now storing 23 tmc of water, said Tourism Minister V Srinivas Goud.

The TSTDC is operating three packages, including Vemulawada to Vemulawada (local ride for seven minutes) for Rs 3,000 per head, Vemulawada to Vemulawada over Mid Manair dam (16-minute ride) for Rs 5,500/head and Hyderabad to Vemulawada and back for Rs 30,000/head, the Minister said while flagging off the service from the Begumpet airport. The helicopter rides were being arranged after Municipal Administration and Urban Development Minister KT Rama Rao directed the Tourism Department to make all arrangements for pilgrims visiting the Rajarajeshwara temple, Vemulawada, he said.

Apart from helicopter rides, the Telangana tourism is also operating special buses to Vemulawada. For a one-day trip and darshan, adults are charged Rs 550 and children Rs 450. Buoyed by the success of helicopter rides to Medaram jatara a few days ago, the State tourism will popularise helitourism in the coming days. During the four-day festivities at Medaram, nearly 1,000 people enjoyed air rides. Interestingly, a majority of them booked local rides while many from Hanamkonda took the ride to the venue. All efforts were being made to operate helicopter rides to different tourism and pilgrim centres such as Somasila, Nallamalla, Srisailam, Kaleshwaram, Basara, Bhadrachalam, Yadadri and others, the Minister



said, adding that measures were being taken to construct helipads at the venues along with other necessary arrangements. TRS MLA C Ramesh said the State government had earmarked Rs 400 crore for development and beautification works at the temple and already works worth Rs 180 crore were under progress.

Hyderabad-based Radiant starts LED TV production for global brands

Hyderabad : 12th Feb 2020



Hyderabad-based Resolute Group company Radiant Appliances and Electronics, an electronics products and components maker, has started manufacturing LED TVs for Samsung from its facility at Maheshwaram Fab City. Sharing the development, Radiant Appliances and Electronics CEO Raminder Singh Sooin said, “We have started manufacturing LED TVs for Panasonic, Motorola and Nokia from April 2019 onwards. Since we have picked up our capacities, we have started manufacturing for Samsung. We have a capacity of 2 million units per annum. We have 1,000 employees working at this facility.”

Telangana Industries & IT Minister KT Rama Rao said - Radiant Appliances becomes the first company from

Hyderabad to manufacture LED TVs for global market leader Samsung and other well-known MNC brands from their state-of-the-art facility at Maheshwaram Fab City. Singh further added, "In the next 12-18 months, we will be scaling up capacity for Samsung to cater to the entire domestic market. From 2021, we will start looking at exports from this facility. We will have 2,000 people by end of 2020 and will be employing 3,000 by 2021. We have requested the State government for more space as we are planning for rapid expansion." Radiant will begin making washing machines from June-July this year for Panasonic and other global brands. The company has so far invested Rs 100 crore into the facility. There will be Rs 700 crore fresh investments for expansion, for which the company has announced its partnership with \$5 billion China-based Skyworth Group in December.

100 EV charging stations to come up in Greater Hyderabad region

Hyderabad : 12th Feb 2020

Aiming to give a major push to cleaner and environment-friendly fuel, the Central government's Department of Heavy Industries is all set to establish over 100 electric vehicle (EV) charging stations in the Greater Hyderabad region. Accordingly, the Telangana State Renewable Energy Development Corporation Ltd (TSREDCO), the nodal agency appointed by the State government to oversee setting up of a total of 138 EV charging stations in the State, is working on finalising the locations in Hyderabad.



"These eco-friendly charging stations are very likely to come in Hyderabad Metro stations, GHMC parking lots, near HMDA parks, the Financial District in Gachibowli, IOCL petrol pumps and other feasible areas," N Janaiah, Managing Director, TSREDCO said. The project, proposed under the Faster Adoption and Manufacturing of Hybrid and Electric Vehicles (FAME) -II programme of the Ministry of Heavy Industries and Public Enterprises, is aimed at enabling faster adoption of electric vehicles by ensuring safe, reliable and accessible charging infrastructure.

At a time when the city is facing rising pollution levels due to a growing vehicle population, the eco-friendly move is expected to encourage motorists to adopt electric vehicles. Moreover, this facility is cost effective when compared to petrol and diesel, officials say. To encourage preparedness of electrical distribution system to adopt EV charging infrastructure, already 200 tentative locations were identified in the city, Nagaiah said, adding that tenders have been called for creating the infrastructure. In Hyderabad, a majority of the EV charging stations will have fast chargers and some localities will have moderate charging and slow charging stations. In fast charging stations, there will be six plugs, which can charge the vehicle in 60 to 90 minutes.

Officials said that it would cost over Rs 30 lakh for establishing the EV charging infrastructure. Already some Metro stations have EV charging facility and is being widely used by electric cars of OLA, Uber and Zoom. Each public charging station requires an exclusive transformer with all related substation equipment including safety appliance, appropriate civic works, cabling and electric works and should have one or more chargers.

100 EV charging stations soon

- Charging stations to come up at GHMC parking lots, HMDA parks
- 200 tentative locations identified in city
- Most EV facilities will have fast charging stations
- A fast charger can charge vehicle in 60 to 90 minutes
- Tenders called for EV charging infrastructure

Analysis

Telangana budget 2020: Harish Rao presents Rs. 1.82 lakh crore

Hyderabad March 08, 2020

Hon'ble Finance Minister T. Harish Rao presented a budget of Rs. Rs.1,82,914 Crore for Telangana State for the financial year 2020-21, an increase by a whopping Rs. 40,762 crore compared to revised budget of 2019-20. "In 2020-21 financial year, I am proposing Rs.1,82,914.42 crore of expenditure. Out of this, the revenue expenditure is Rs.1,38,669.82crore and capital expenditure is Rs.22,061.18 crore. It is estimated that surplus in Budget Estimates is



Rs.4,482.12 crore, while the fiscal deficit is Rs.33,191.25 crore," Harish Rao said while presenting his maiden budget as Finance Minister in the Assembly. Harish Rao informed that as per the Revised Estimates, the total expenditure in 2019-20 is estimated at Rs.1,42,152crore. Out of this, the revenue expenditure is Rs. 1,10,824crore while capital expenditure is Rs.13,165 crore. As per the revised estimates, surplus in revenue account is Rs.103.55 crore.

It may be mentioned that Hon'bleChief Minister K. Chandrashekhar Rao had presented an Vote-on-Account budget of Rs. 1,82,017 crore for 2019-20 in February 2019. In view of economic slowdown, the budget was trimmed and the Chief Minister presented a full-fledged budget in September 2019 cutting down the total estimated expenditure to Rs. 146,492 Crore. It was later revised to Rs. 1,37,226 crore and now to Rs. 1,42,152 crore. Harish Rao claimed that the annual budget for 2020-21 has been prepared realistically with the sole aim of promoting the welfare of all the sections of the society and improving the growth prospects of all the sectors of the economy. "Budget is not about figures written on papers but a reflection of social values. This Budget is reflects the comprehensive vision, foresight and dedication of Chief Minister for the overall development of the State," he said.

The Finance Minister said that the budget has been prepared against the backdrop of overall economic slowdown gripping the Indian economy. "The economy is facing slowdown for the past one and a half years. As a result, there is reduction in tax devolution and other transfers to the State by the Centre, and decline in the growth of State revenues. There is an immediate need to keep up the growth momentum in the State. The tax devolution from Centre to the State is expected to be lower in 2019-20 by Rs. 3,731 crore as compared with the budget estimates. There are delays and shortfalls in the release of State's share in Integrated Goods and Services Tax and GST compensation. Following the economic slowdown, the growth of the State's own revenues in 2019-20 (till the end of February) is estimated to be at 6.3%, much below the growth of 16.1% achieved in 2018-19," he said.

Further, he said that due to the recommendations of the Fifteenth Finance Commission, there will be a reduction in the share of Telangana in Central tax devolution from 2.437% to 2.133 % resulting in reduction of tax devolution by an amount of Rs. 2,384 crore in 2020-21. “Let me assure the Hon’ble Members that despite these adverse developments, which are beyond our control, the government is confident of overcoming the situation with appropriate strategies and keep up the growth momentum in the State,” he said.

As per the Advanced Estimates, Gross State Domestic Product (GSDP) in 2019-20 is estimated at Rs.9,69,604crores, at current prices indicating a growth of 12.6% over the previous year. Because of the economic slowdown, there has been a slight decline in the growth of GSDP, in current prices, from 14.3 % in 2018-19 to 12.6% in 2019-20. However, the decline is much lower than that of the decline in national GDP growth from 11.2% to 7.5 % in the corresponding period. Thus, to a great extent, the State economy has withstood the shocks of the economic slowdown across the country and maintained a double digit growth rate, he claimed.

Agriculture and allied sectors have recorded an impressive growth in 2019-20. While the crop sector is estimated to grow at 23.7%, the livestock and fishing sectors are estimated to grow at 17.3% and 8.1% respectively. “This is ample proof that the initiatives taken by the Government in the agriculture and allied sectors like irrigation, loan waiver and RythuBandhu, sheep distribution and development of water bodies and fisheries have not only contributed to the farmers’ welfare but also contributed to the growth of the State economy. The services sector is estimated to grow at 14.1% in 2019-20 at current prices,” he said.

The Finance Minister informed that the per capita income of the State of Telangana was greater than the per capita income of our country. Per capita income for 2019-20 for Telangana is estimated at Rs.2,28,216/- whereas the per capita income of our country is Rs.1,35,050/-.The major allocations are

Panchayat Raj & RR	23,005.00 Cr.
SC Welfare	16,534.97 Cr.
Municipal Administration	14,809.00 Cr.
RythuBandhu	14,000.00 Cr.
Housing	11,917.00 Cr.
Aasra Pension	11,758.00 Cr.
Drinking Water	11,054.00 Cr.
School Education	10,421.00 Cr.
Energy	10,416.00 Cr.
Hyderabad Development	10,000.00 Cr.
ST Welfare	9,771.27 Cr.
Crop Loan Waiver	6,225.00 Cr.
Health	6,186.00 Cr.
Police Administration	5,852.00 Cr.
Backward Classes Welfare	4,356.00 Cr.
Roads & Buildings	3,494.00 Cr.
Fee Reimbursement	2,650.00 Cr.
Industrial Development	1,998.00 Cr.
Higher Education	1,723.27 Cr.
Animal Husbandry	1,586.38 Cr.
Minorities Welfare	1,518.06 Cr.
Industrial Infrastructure	1,500.00 Cr.
Kalyana Lakshmi	1,350.00 Cr.
Women SHGs	1,200.00 Cr.
RythuBima	1,141.00 Cr.
Market Intervention Fund	1000.00 Cr.
RTC	1000.00 Cr.
Drinking Water in 38 Municipalities	800.00 Cr.
Forest & Environment	791.00 Cr.
Collectorate, DPO, PCCC	550.00 Cr.
MBC Corporation	500.00 Cr.
Endowments Dept	500.00 Cr.
MLA, MLCs SDP	480.00 Cr.
Total Literacy Programme	100.00 Cr.

Telangana budget at a Glance 2020-21

₹ in Crores				
Particulars	Accounts 2018-19	BE 2019-20	RE 2019-20	BE 2020-21
(1)	(2)	(3)	(4)	(5)
I Opening Balance	78.10	462.01	-91.23	1,029.68
II Revenue Receipts	1,01,420.16	1,13,099.92	1,10,928.32	1,43,151.94
1 Share of Central Taxes	18,560.88	19,718.57	15,987.59	16,726.58
2 Tax Revenue	64,674.07	69,328.57	71,327.57	85,300.00
3 Non Tax Revenue	10,007.42	15,875.03	12,275.03	30,600.00
4 Grants-in-aid	8,177.79	8,177.75	11,338.13	10,525.36
III Capital Receipts	55,561.31	33,444.86	32,344.86	39,550.00
5 Open Market Loans	26,741.80	31,000.00	31,000.00	34,000.00
6 Floating Debt (Gross)	21,823.27	100.00	100.00	100.00
7 Loans from the GOI	433.46	800.00	200.00	400.00
8 Other Loans	1,963.43	1,000.00	500.00	1,000.00
9 Deposits Transactions etc.(Net)	4,535.54	500.00	500.00	4,000.00
10 Loans and Advances	65.82	44.86	44.86	50.00
11 Other Receipts	0.00	0.00	0.00	0.00
12 Contingency Fund(Net)	-2.01	0.00	0.00	0.00
IV Total Receipts(II + III)	1,56,981.47	1,46,544.78	1,43,273.18	1,82,701.94
V Revenue Expenditure	97,083.08	1,11,055.84	1,10,824.77	1,38,669.82
13 Of which Interest Payments	13,086.29	14,574.73	14,385.02	14,615.36
VI Capital Expenditure	22,640.53	17,274.67	13,165.72	22,061.18
VII Loans and Advances	8,706.24	8,896.02	8,896.02	15,662.20
VIII Capital Disbursements(14to18)	28,720.95	9,265.77	9,265.77	6,521.22
14 Floating Debt	21,823.27	100.00	100.00	100.00
15 Public Debt Repayment	4,558.29	6,411.69	6,411.69	4,701.60
16 Loans Form GOI	833.68	369.99	369.99	377.99
17 Other Loans	1,500.40	2,384.09	2,384.09	1,341.64
18 Inter State Settlement	5.31	0.00	0.00	0.00
IX Total Expenditure	1,57,150.80	1,46,492.30	1,42,152.28	1,82,914.42
X Overall Transactions(IV – IX)	-169.33	52.48	1,120.90	-212.48
XI Closing Balance(I + X)	-91.23	514.50	1,029.68	817.20
XII Revenue Surplus(II – V)	4,337.08	2,044.08	103.55	4,482.12
XIII Fiscal Deficit(XII - VI - VII + 10)	26,943.87	24,081.74	21,913.32	33,191.25
IV Primary Deficit(XIII - 13)	13,857.58	9,507.01	7,528.30	18,575.89

Source: www.finance.telangana.gov.in

An Analysis of Revenue Receipts

₹ in Lakhs

PARTICULARS	Accounts 2017-18	Accounts 2018-19	R.E 2019-20	B.E 2020-21
I Share of central Taxes.(Income Tax, Union Excise Duties Additional Duties of Excise and Estate Duty)	14,53,192.00	18,56,088.00	15,98,759.00	16,72,658.00
II Taxes on Income and Expenditure	41,135.02	48,582.32	58,600.00	75,266.00
Other Taxes on Income and Expenditure	41,135.02	48,582.32	58,600.00	75,266.00
III Taxes on Property	4,31,323.87	5,48,262.29	6,58,701.00	10,18,119.00
Land Revenue	411.75	42.40	539.00	694.00
Stamps and Registration Fees	4,20,246.21	5,34,403.85	6,44,600.00	10,00,000.00
Taxes on Immovable Property other than Agricultural Land	10,680.91	13,580.04	13,580.00	17,442.00
IV Taxes on Commodities	43,98,286.99	37,27,268.49	40,19,098.00	48,49,209.00
State Excise	9,42,133.01	10,63,756.41	12,60,000.00	16,00,000.00
Taxes on Sales, Trade etc.,	25,10,648.44	20,29,049.59	21,97,200.00	26,40,000.00
Taxes on Vehicles	3,58,948.23	3,76,193.63	3,71,400.00	4,30,000.00
Taxes on Goods and Passengers	8,763.09	18,854.17	0.00	0.00
Taxes and Duties on Electricity	39,699.35	1,597.39	2,563.00	3,291.00
Other Taxes and Duties	12,024.87	1,648.30	2,575.00	3,307.00
V Non-Tax Revenue	7,82,539.93	10,00,742.47	12,27,503.00	30,60,000.00
Interest Receipts, Dividends	21,655.16	15,326.00	24,518.00	28,414.00
General Services	1,17,013.47	4,16,911.58	6,93,552.00	14,87,996.00
Social Services	71,145.57	80,318.52	94,120.00	9,53,568.00
Economic Services	5,72,725.73	4,88,186.37	4,15,313.00	5,90,022.00
VI Grants-in-Aid and contributions	8,05,879.66	8,17,778.74	11,33,813.33	10,52,536.00

Source: www.finance.telangana.gov.in

List of Schemes included in the Pragathi Paddu 2019-20

Rs. Lakh

Sl. No.	Head of Development/ Head of Department / Name of the Scheme	Head of Account	Budget Estimate 2018-19	Revised Estimate 2018-19	Budget Estimate 2019-20
1	2	3	4	5	6
INDUSTRY AND MINERALS					
1	Village and Small Industries				
A	Commissioner Industries				
	State Sector Schemes				
1	Awards to SSI Units for Productivity, Innovations and Safety	2851-102-25-49	25.00	20.57	2.30
2	Assistance to Telangana Khadi and Village Industries Board	2851-105-25-04	30.00		
3	Incentives for Industrial Promotion	2851-800-25-08	25614.41	21078.67	2155.63
4	Development of Clusters in Tiny Sector	2851-800-25-09	25.00	20.57	2.30
	Total INDUSTRIES		25664.41	21119.81	2190.23
	Commerce and Export Promotion				
	State Sector Schemes				
	Head Quarters Office	3453-106-25-01	1.00	0.82	0.09
	Total Commerce & Export Promotion		1.00	0.82	0.09
Leather Industry Development Corporation of Telangana (LIDCT)					
	State Sector Schemes				
1	Investments in TS LIPCO	4860-03-789-25-04			
	Total - LIDCT		0.00	0.00	0.00
HANDLOOMS & TEXTILES					
	State Sector Schemes				
1	Financial Assistance to Weavers	2851-103-25-11	2691.38	2214.80	247.51
2	Financial Assistance to Handloom and Textile Promotion	2851-103-25-38	4315.78	3551.55	396.90
	Total - HANDLOOMS & TEXTILES		7007.16	5766.35	644.41
	Commissioner Sericulture				
	State Sector Schemes				
1	Head Quarters Office	2851-107-25-01	2.16	1.78	
2	District Office	2851-107-25-03	21.00	17.28	
3	Implementation of Sericulture Scheme	2851-107-25-05	645.00	530.79	
4	Integrated Development of Sericulture from Sericulture Development Fund	2851-107-25-47	94.50	77.76	
5	Sericulture Training	2851-107-25-50	2.00	1.65	
	Total - SERICULTURE		764.66	629.26	0.00
	Total - Village and Small Industries		33437.23	27516.24	2834.73
2	Large and Medium Industries				
	Commissioner, Industries				
	State Sector Schemes				
1	Head Quarters Office	2852-80-001-25-01	200.00	164.58	18.39
2	Automation and Modernisation of Commissionerate of Industries	2852-80-001-25-07	200.00	164.58	18.39
3	Incentives for Industrial Promotion	2852-80-800-25-04	20225.00	16643.61	1729.99

Sl. No.	Head of Development/ Head of Department / Name of the Scheme	Head of Account	Budget Estimate 2018-19	Revised Estimate 2018-19	Budget Estimate 2019-20
4	Power Subsidy for Industries	2852-80-800-25-13	13000.00	10697.99	995.54
5	Extension of Pavalavaddi Scheme to all SSI and Food Processing units	2852-80-800-25-14	10000.00	8229.22	919.65
6	Prevention of Incipient Sickness of SMEs	2852-80-800-25-18	4000.00	3291.69	167.86
7	Research and Innovation Circle of Hyderabad (RICH)	2852-80-800-25-19	400.00	329.17	36.79
8	Expenditure for Chasing Cell	2852-80-800-25-21	134.00	110.27	12.32
9	Construction of New Buildings for Commission of Industries Office	4852-80-800-25-05	300.00	246.88	27.59
10	Acquisition / Alienation of land for NIMZ	4875-60-190-25-13	10000.00	8229.22	919.65
	Sub-total - State Sector Schemes		58459.00	48107.21	4846.17
	Total INDUSTRIES		58459.00	48107.21	4846.17
INDUSTRIES AND COMMERCE, SECRETARIAT DEPARTMENT					
	State Sector Schemes				
1	Telangana State Food Processing and Preservation	2408-01-103-25-04	100.00	82.29	9.20
2	Telangana State Handicrafts Development Corporation	2875-60-800-25-16	399.70	328.92	36.76
3	Telangana State Trade Promotion Corporation	2875-60-800-25-15	500.00	411.46	45.98
4	Industries and Commerce Department, Sectt	3451-090-25-07	4.50	3.70	0.41
	Total INDUSTRIES AND COMMERCE, SECRETARIAT DEPARTMENT		1004.20	826.37	92.35
	Infrastructure and Investment Secretariat Dept				
1	Industrial Infrastructure Development Scheme	2875-60-800-25-11	10475.00	8620.11	1663.33
	Total - Infrastructure and Investment Secretariat Dept		10475.00	8620.11	1663.33
	Commissioner, Sugars				
	State Sector Schemes				
1	Assistance to CDCs for Systematic Sugar Cane intensification	2852-08-201-25-08	1762.00	1449.99	162.04
	Total - SUGAR CANE COMMISSIONER		1762.00	1449.99	162.04
	Total - Large & Medium Industries		71700.20	59003.68	6763.89
3	Mining				
	Director, Mines & Geology				
	State Sector Schemes				
1	Head Quarters Office	2853-02-001-25-01	2.78	2.28	0.25
2	District Offices	2853-02-001-25-03	0.50	0.41	0.05
3	Revolving Fund for Reimbursement of Expenditure of Sand Exploration	2853-02-190-25-07	3000.00	2468.77	275.89
4	Reimbursement of expenses incurred by TSMDC for Sand exploration	2853-02-190-25-06	2500.00	2057.31	7353.33
	Total - MINES AND GEOLOGY		5503.28	4528.77	7629.52
	Total Industries & Minerals		110640.71	91048.69	17228.14

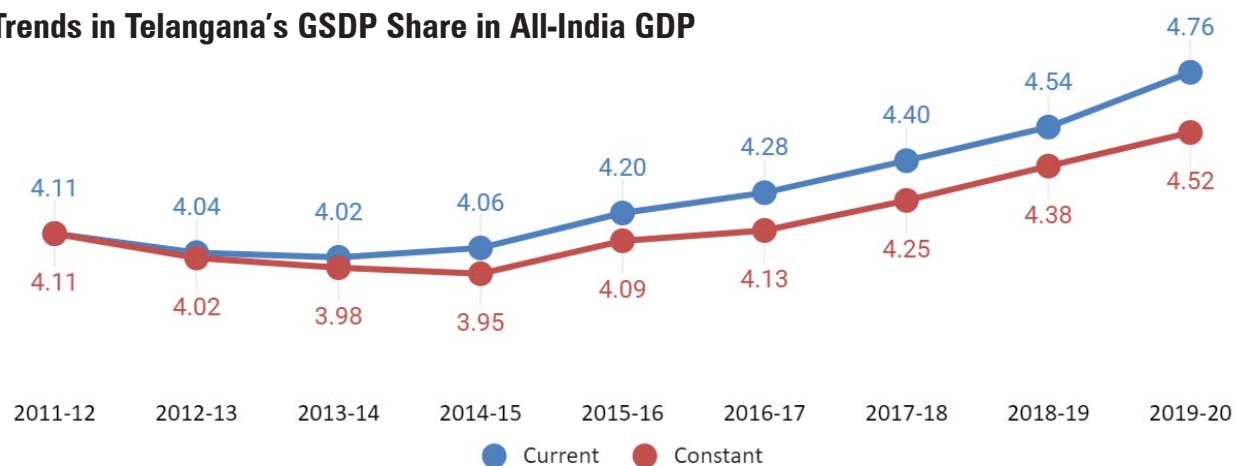
Source: www.finance.telangana.gov.in

Trends in GSDP/GDP and GSDP/GDP Growth Rates - Telangana vs. All India

Year	Current Prices (Rs. in crore)					Constant Prices (Rs. in crore)				
	Telangana		All India		Share of TS	Telangana		All India		Share of TS
	GSDP	GR	GDP	GR		GSDP	GR	GDP	GR	
2011-12	3,59,434	-	87,36,329	-	4.11	3,59,434	-	87,36,329	-	4.11
2012-13	4,01,594	11.7	99,44,013	13.8	4.04	3,70,113	3.0	92,13,017	5.5	4.02
2013-14	4,51,580	12.4	1,12,33,522	13.0	4.02	3,89,957	5.4	98,01,370	6.4	3.98
2014-15	5,05,849	12.0	1,24,67,959	11.0	4.06	4,16,332	6.8	1,05,27,674	7.4	3.95
2015-16	5,77,902	14.2	1,37,71,874	10.5	4.20	4,64,542	11.6	1,13,69,493	8.0	4.09
2016-17 (TRE)	6,58,325	13.9	1,53,91,669	11.8	4.28	5,07,946	9.3	1,23,08,193	8.3	4.13
2017-18 (SRE)	7,53,127	14.4	1,70,98,304	11.1	4.40	5,59,492	10.1	1,31,75,160	7.0	4.25
2018-19 (FRE)	8,61,031	14.3	1,89,71,237	11.0	4.54	6,12,828	9.5	1,39,81,426	6.1	4.38
2019-20 (AE)	9,69,604	12.6	2,03,84,759	7.5	4.76	6,63,258	8.2	1,46,83,835	5.0	4.52

Note: TRE: Third Revised Estimates, SRE: Second Revised Estimates, FRE: First Revised Estimates, AE: Advance Estimates and GR: Growth Rate.

Trends in Telangana's GSDP Share in All-India GDP

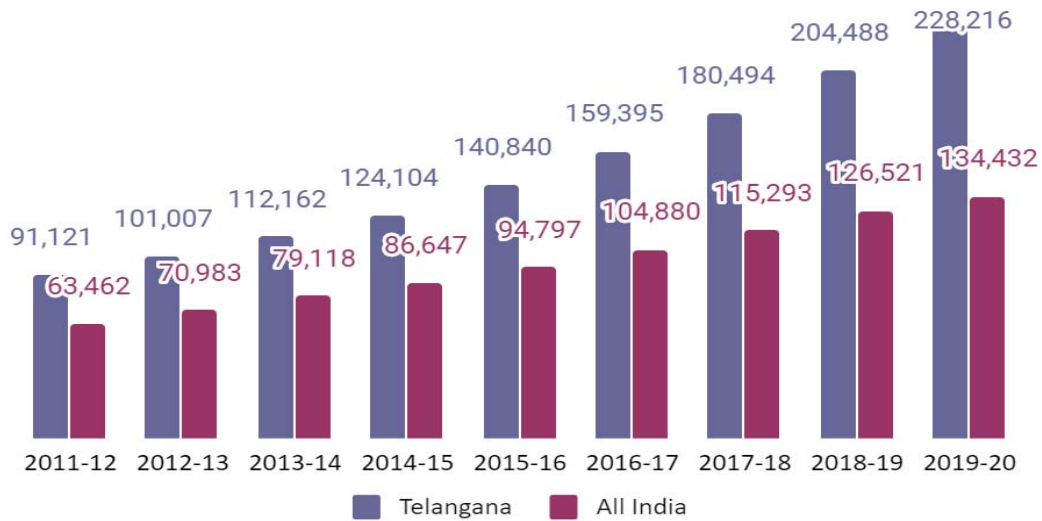


Sector-wise GVA in Telangana vs All-India (2019-20)

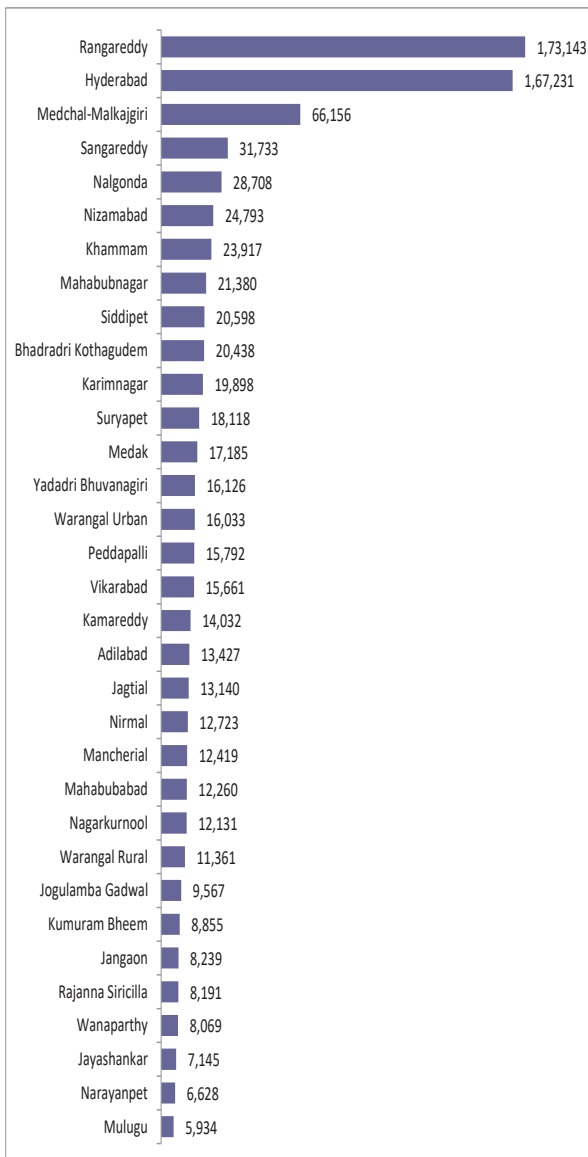
Sl. No.	Sector	Telangana (Rs. in crore)				All India (Rs. in crore)			
		Current Prices		Constant Prices		Current Prices		Constant Prices	
		GVA	GR	GVA	GR	GVA	GR	GVA	GR
1	Primary	1,62,384	15.8	94,285	10.7	36,45,898	10.1	22,95,559	3.5
2	Secondary	1,42,055	5.3	1,10,503	1.7	46,80,381	2.5	36,97,173	1.8
3	Tertiary	5,70,058	14.1	3,85,146	9.6	1,01,67,407	9.8	74,41,872	7.0
Total GVA		8,74,496	12.9	5,89,934	8.2	1,84,93,686	7.9	1,34,34,606	4.9
Total GSDP/GDP		9,69,604	12.6	6,63,258	8.2	2,03,84,759	7.5	1,46,83,835	5.0

Source: Socio Economic Outlook 2020

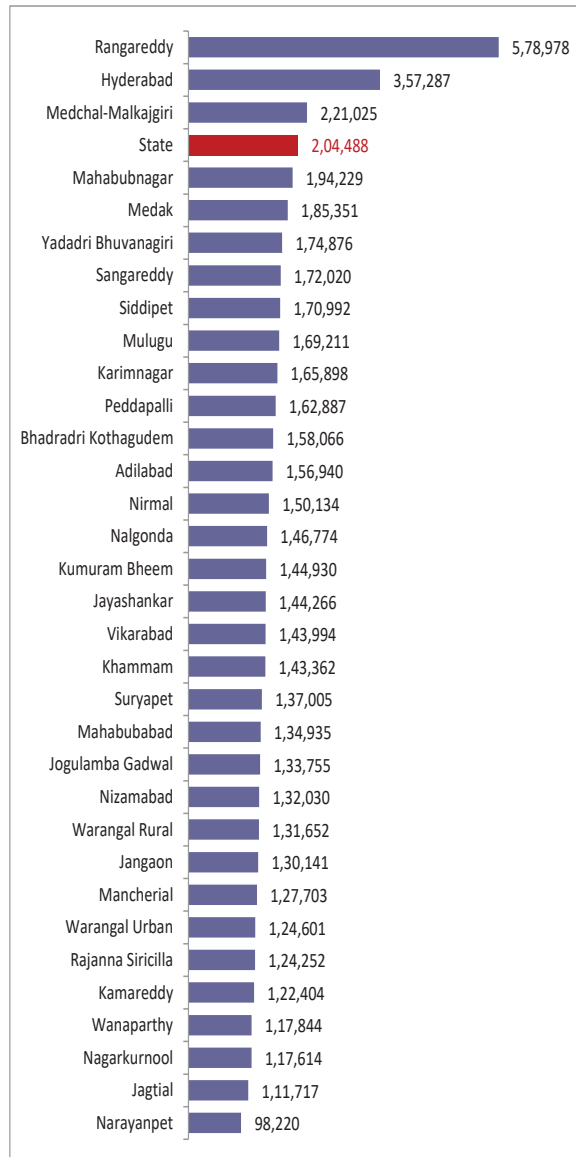
Trends in Per-Capita Income at Current Prices (Rs.)



Gross District Domestic Income, 2018-19 (Rs. Cr) at Current Prices



District-wise Per Capita Income, 2018-19 (Rs.) at Current Prices



Source: Socio Economic Outlook 2020

Trends in Sectoral Growth Rates of Gross State Domestic Product at Constant Prices

Sl. No.	Sector	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
1	Agriculture, Livestock, Forestry and Fishing	8.8	4.0	-9.7	-7.5	11.1	8.7	6.8	14.3
1.1	Crops	9.8	4.8	-20.6	-18.1	17.7	3.9	2.1	15.7
1.2	Livestock	8.0	2.3	8.1	6.3	6.6	13.1	12.0	14.6
1.3	Forestry and Logging	-0.6	-2.5	-7.7	-1.9	9.1	0.1	-1.2	-0.1
1.4	Fishing and Aquaculture	10.4	14.4	8.5	-11.0	-17.6	36.5	10.0	2.2
2	Mining and Quarrying	7.8	-9.2	16.4	11.8	7.4	10.2	11.4	-2.1
	Primary	8.6	1.8	-5.8	-4.0	10.3	9.0	7.8	10.7
3	Manufacturing	-15.4	-0.8	-7.5	32.1	1.9	8.0	7.3	1.6
4	Electricity, Gas, Water Supply and Other Utility Services	-21.1	40.6	-23.8	8.8	-20.4	29.1	2.3	4.5
5	Construction	1.6	-7.7	9.2	2.8	1.5	3.4	2.5	1.3
	Secondary	-11.7	0.4	-4.9	21.4	0.1	8.1	5.8	1.7
6	Trade, Repair, Hotels and Restaurants	7.4	8.2	19.9	12.1	10.7	16.6	12.6	11.0
6.1	Trade and Repair Services	8.1	14.9	22.3	12.4	11.7	18.1	13.3	11.6
6.2	Hotels and Restaurants	4.4	-22.0	3.9	9.9	3.0	3.3	5.0	3.7
7	Transport, Storage, Communication and Services related to Broadcasting	10.2	4.0	7.1	9.1	4.2	6.4	8.7	8.4
7.1	Railways	4.1	7.4	-3.1	-2.2	-0.4	11.3	4.5	7.8
7.2	Road Transport	9.4	5.6	4.8	8.1	4.9	8.6	12.1	9.8
7.3	Water Transport	-	-	-	-	-	-	-	-
7.4	Air Transport	73.6	-24.3	79.3	79.7	9.2	4.7	2.8	8.2
7.5	Services Incidental to Transport	21.9	-12.5	9.4	1.7	7.2	14.8	9.6	10.8
7.6	Storage	-20.8	4.9	-0.3	-1.2	3.8	6.7	12.6	1.1
7.7	Communication and Services related to Broadcasting	3.7	14.8	11.9	13.7	1.2	-5.3	-0.4	2.2
8	Financial Services	9.7	10.0	11.9	7.7	9.3	5.6	3.8	3.0
9	Real Estate, Ownership of Dwellings and Professional Services	12.8	11.6	12.3	11.4	12.0	7.2	10.1	10.4
10	Public Administration	1.9	5.2	14.4	22.8	11.2	8.3	11.3	11.5
11	Other Services	1.0	8.2	9.7	10.4	16.5	9.9	10.3	10.5
	Tertiary	8.4	8.7	12.9	11.3	11.0	9.5	9.9	9.6
12	Total GSVA at Basic Prices	2.9	5.3	5.2	10.6	8.4	9.1	8.7	8.2
13	Taxes on Products	4.3	2.8	16.9	20.2	16.1	17.3	14.7	7.5
14	Subsidies on Products	5.8	-4.5	-17.5	11.0	2.8	2.4	3.9	1.4
15	GSDP	3.0	5.4	6.8	11.6	9.3	10.1	9.5	8.2

Source: Socio Economic Outlook 2020

Gross State Domestic Product of States with Growth Rates at Constant Prices as on 28.02.2020

Sl. No.	State\UT	GSDP at Constant Prices (Rs. in crore)				Growth Rates				Avg. GR
		2015-16	2016-17	2017-18	2018-19	2015-16	2016-17	2017-18	2018-19	
1	Goa	46,091	51,482	56,742	66,611	14.9	11.7	10.2	17.4	13.5
2	Karnataka	8,31,368	9,42,260	10,37,729	11,36,634	11.1	13.3	10.1	9.5	11.0
3	A & N Islands	5,092	5,752	6,482	NA	7.4	13.0	12.7	NA	11.0
4	Assam	1,91,109	2,02,081	2,28,714	2,46,938	15.7	5.7	13.2	8.0	10.6
5	Telangana	4,64,542	5,07,946	5,59,492	6,12,828	11.6	9.3	10.1	9.5	10.2
6	Gujarat	8,94,465	9,81,342	10,89,811	11,90,121	10.2	9.7	11.1	9.2	10.1
7	Odisha	2,92,229	3,37,696	3,59,050	3,87,403	8.0	15.6	6.3	7.9	9.4
8	Haryana	4,13,405	4,56,659	4,94,068	5,31,085	11.6	10.5	8.2	7.5	9.4
9	Mizoram	12,324	13,595	14,669	16,036	9.4	10.3	7.9	9.3	9.2
10	Chandigarh	24,932	27,214	30,402	32,398	9.0	9.2	11.7	6.6	9.1
11	Bihar	2,96,488	3,23,004	3,56,768	3,94,350	6.1	8.9	10.5	10.5	9.0
12	Delhi	4,75,623	5,11,504	5,54,908	6,02,708	11.0	7.5	8.5	8.6	8.9
13	Andhra Pradesh	4,98,606	5,40,212	5,94,841	6,21,301	12.2	8.3	10.1	4.4	8.8
14	West Bengal	6,09,545	6,53,416	7,11,408	8,00,913	6.1	7.2	8.9	12.6	8.7
15	Madhya Pradesh	4,18,856	4,71,016	5,00,151	5,35,362	9.1	12.5	6.2	7.0	8.7
16	Tripura	26,787	30,538	33,645	37,295	-0.7	14.0	10.2	10.8	8.6
17	Jammu & Kashmir	97,001	1,00,730	1,06,506	1,12,885	17.8	3.8	5.7	6.0	8.3
18	Uttarakhand	1,52,699	1,67,703	1,80,844	1,93,273	8.1	9.8	7.8	6.9	8.2
19	Uttar Pradesh	9,08,241	10,07,010	10,79,879	11,37,469	8.8	10.9	7.2	5.3	8.1
20	Maharashtra	16,54,209	18,06,581	19,42,769	NA	7.2	9.2	7.5	NA	8.0
21	Tamil Nadu	9,67,562	10,36,762	11,16,334	12,07,526	8.2	7.2	7.7	8.2	7.8
22	Sikkim	14,370	15,397	16,467	17,629	9.9	7.2	6.9	7.1	7.8
23	Puducherry	19,060	20,478	22,489	24,442	4.7	7.4	9.8	8.7	7.7
24	Kerala	4,51,210	4,85,302	5,20,579	5,59,412	7.4	7.6	7.3	7.5	7.4
25	Himachal Pradesh	96,274	1,03,055	1,09,805	1,17,868	8.1	7.0	6.5	7.3	7.3
26	Rajasthan	5,63,340	5,97,267	6,33,278	6,77,428	8.0	6.0	6.0	7.0	6.8
27	Meghalaya	20,638	21,730	23,742	25,890	2.5	5.3	9.3	9.0	6.5
28	Punjab	3,30,052	3,52,721	3,75,238	3,97,669	5.7	6.9	6.4	6.0	6.2
29	Jharkhand	1,74,881	1,93,174	2,17,618	2,32,821	-6.2	10.5	12.7	7.0	6.0
30	Chhattisgarh	1,91,020	2,07,326	2,18,539	2,31,820	2.8	8.5	5.4	6.1	5.7
31	Manipur	16,424	17,082	17,744	18,888	7.7	4.0	3.9	6.4	5.5
32	Nagaland	14,660	15,650	16,485	17,647	1.8	6.7	5.3	7.1	5.2
33	Arunachal Pradesh	14,240	14,746	15,944	16,676	-1.0	3.6	8.1	4.6	3.8

Source: Socio Economic Outlook 2020

GOLKONDA BRAND PRODUCTS

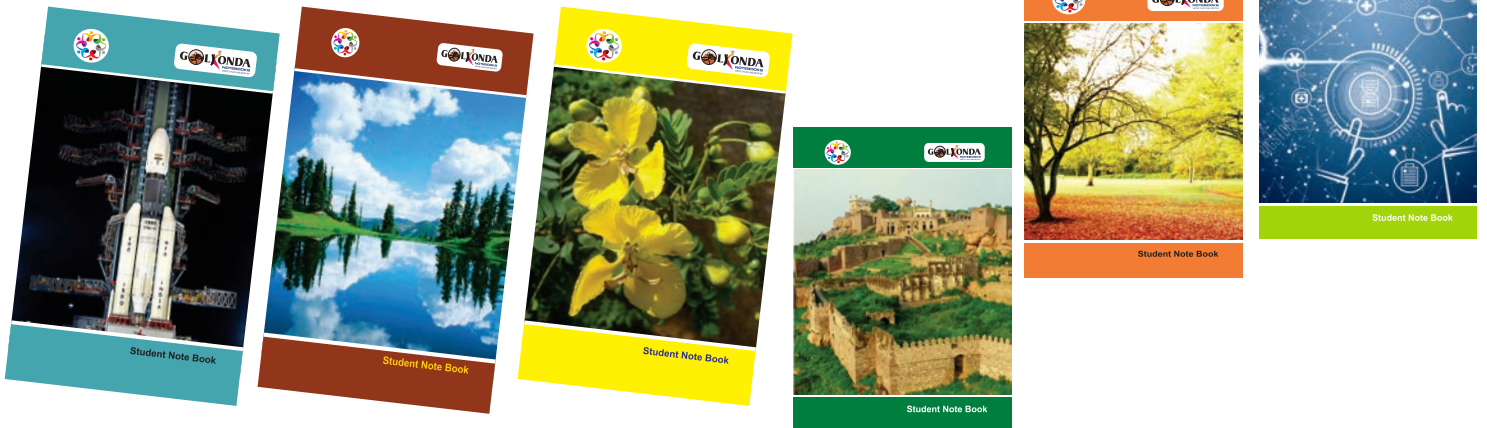
GOLKONDA NOTE BOOKS

WRITE YOUR OWN DESTINY

Students Favoured choice

QUALITY & QUANTITY GUARANTEED

- ✓ Affordable Price
- ✓ Accurate Size
- ✓ Whiter Pages



GOLKONDA COPIER PAPER

- ✓ High brightness and opacity
- ✓ Improved electrostatic properties
- ✓ Dimensional stability and stiffness
- ✓ Absolute copying freedom



Marketed by :



TELANGANA STATE TRADE PROMOTION CORPORATION LIMITED

D.No. 5-10-174, Shakkar Bhavan, 2nd Floor, Fateh Maidan Road, Hyderabad-4
Phone: +91 40 23237591, Email: info@tstpc.org, web: www.tstpc.org