

Telangana State Trade Journal

EXPLORING NEW TRADE FRONTIERS

VOLUME - 5

ISSUE - 2

FEBRUARY, 2020



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EXPLORING NEW TRADE FRONTIERS

TELANGANA STATE TRADE PROMOTION CORPORATION LIMITED

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Sri K T Rama Rao Hon'ble Minister of MA&UD, Industries and IT&C, **Sri Jayesh Ranjan, I.A.S,** Principal Secretary of the Industries & Commerce (I&C) and Information Technology (IT) Department of the Telangana Government, **Ramesh Nair CEO & Country Head** JLL India, **Sri. Bonthu Rammohan, Mayor** and others formally launched JLL City Momentum Index 2020 Global Report - **Hyderabad emerged as the World's most Dynamic City.**

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MONTHLY TRADE JOURNAL

Telangana State Trade Promotion Corporation Limited.

Volume : 5

Issue : 2

February : 2020

CONTENTS

| | |
|--|-------|
| Telangana best performing state in sustainable growth in India | 3 |
| Telangana leads the country in services sector growth | 4 |
| KCR for 100 per cent literate Telangana | 5 |
| Piramal Pharma to invest Rs 500 crore in Telangana to expand operations | 6 |
| Telangana government urges Boeing to set up Technology and Engineering division in state | 7 |
| Telangana delegation turns heads at Davos meet | 8 |
| Telangana delegation the busiest at Davos | 9 |
| KTR promotes Telangana as an investment destination | 10 |
| Telangana focused on tapping raw talent, says KTR | 11 |
| Telangana government plans Sanitation Hub with Rs 25 crore seed fund | 12 |
| Spices Board regional office comes to Nizamabad | 13 |
| Telangana planning to set up Aerospace University : KT Rama Rao | 14 |
| TRS pitches for States' role in infra projects | 17 |
| Telangana: Eight MoUs and two pilot projects launched in AI | 18 |
| Telangana GENCO awarded for excellent e-governance | 19 |
| Telangana at fourth place in energy conservation in the country | 20 |
| Telangana government discusses collaboration with US-based software firm Salesforce | 21 |
| T-Fiber to bridge digital gap | 22 |
| Telangana: 2020 announced as Year of AI | 23 |
| Telangana government launches blockchain accelerator programme for startups | 24 |
| UK initiative helping firms go global | 25 |
| UK trade dept to help T-Hub startups | 26 |
| Telangana keen to create growth clusters: KTR | 27 |
| The Key Highlights of Union Budget 2020-21 | 28-36 |

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Message from the Joint Managing Director's Desk

I am happy to note that Smt. Nirmala Sitharaman, Hon'ble Union Minister for Finance presented the country's budget for the year 2020-21 on 1st February, 2020 in the Lok Sabha with a Budget Estimate of Rs 30,42,203 crores with an increase 9.18% over the previous year. I am happy to state that **India is the 5th largest economy in the World** at Current Prices, **GDP of US \$ 2.9 Trillion** followed by USA (US\$ 21.4 trillion), China (US\$ 14.1 trillion), Japan (US\$ 5.2 trillion) and Germany (US\$ 3.9 trillion). The major focus of the Indian Budget Estimate is mainly Ease of Living covering the Aspirational India (Agriculture, Irrigation and Rural Development, Wellness, Water and Sanitation, Education and Skills), Economic Development (Industry, Commerce and Investment, Infrastructure, New Economy) and Caring Society (Women & Child, Social Welfare, Culture and Tourism, Environment and Climate Change). In this budget major focus was given to the sectors like **Agriculture, Irrigation, Rural Development, Transport Infrastructure, Education and skill Development, & Health Care.**

It is unpleasant to note that the percentage of the economic growth of the country is dropping from 6.1% in 2018-19 to 5% during 2019-20 (First Advanced Estimate). This is due to drop in the percentage growth of manufacturing sector from 6.9% to 2% and construction industry from 8.7% to 3.2%. Further, the Global output has also dropped from 3.6% in 2018 to 2.9% in 2019. **According to the International Monetary Fund**, despite US policy on Iranian oil exports, the crude oil prices have been volatile since August 2019. As of early January 2020, crude oil prices stood at around \$55 a barrel, and markets expected prices to remain broadly at that level over the next 4-5 years.

I am happy to note that **United Nations Development Programme (UNDP)** India announced that **Telangana has emerged as the best performing State in the country** in promoting inclusive and sustainable growth and decent work for all in 2019. As per the Economic Survey of Union Government, **Telangana has topped** the list of states and Union Territories (UTs) in the country **in the growth of services sector**. In case of Sustainable Development Goals (SDG) India Index rankings, released by National Institution for Transforming India (NITI) Aayog, **Telangana has been ranked 3rd in India.**

Government of Telangana is boosting investments into the State through investor friendly Policies **TSiPASS, Single Window Clearances system, deemed approvals etc.** There is a huge potential for making investments in the State. **Piramal Pharma** to invest **Rs 500 crore** in Telangana to expand operations, Chennai-based **Johnson Lifts and Escalators** are keen to setup a unit in Telangana with an investment of **Rs 100 crs**, **Boeing International** have shown interest to set up Technology and Engineering division in the State. The 50th annual meeting of the World Economic Forum (WEF) at Davos gave a fresh boost to Telangana in its endeavours towards attracting investments with an aim to create more jobs. Government of Telangana had announced for establishment of **Sanitation Hub (S-Hub)**, an incubator for promoting startups and innovations in water, sanitation, solid waste management and waste water recycling areas with a seed fund of Rs 25 crore. Central Government announced its decision to establish a Regional Office & Extension Centre of the **Spices Board in Nizamabad** at the earliest. Telangana is planning to establish a **World Class Aerospace University** in partnership with the industry and global universities. Telangana was the first State to come up with its own **Drone policy** to develop an ecosystem for the drone/ UAV industry. Government of Telangana and **Mahindra Ecole Centrale (MEC)** College of Engineering, Hyderabad, have signed a MoU in the area of Artificial intelligence (AI) to provide skill development and consultancy. **Telangana stood fourth in the country in conserving energy.** It also stood in the "contender" category along with Tamil Nadu, Andhra Pradesh, Maharashtra, Madhya Pradesh, Gujarat, Uttar Pradesh and Punjab as per Bureau of Energy Efficiency, Government of India. The government of **Telangana has announced 2020 as the Year of Artificial Intelligence** and plans to make the next decade as Telangana's decade of AI with an aim to establish Hyderabad as amongst the top 25 Global Artificial Intelligence (AI) Innovation Hubs.

The economic growth of the State is appreciating when compared to the national growth. The State Government is taking up all initiatives such as sectorwise policies, sector specific industrial parks, initiatives for attracting industrial investments through participation in the international business conferences, exhibitions, seminars, inviting foreign business delegations, organising investment promotion summits / business conferences, creating investor friendly environment. I am sure that the efforts of the Government will lead the State in top rank in attracting investments for creation of employment opportunities and overall economic growth.

E. Venkat Narasimha Reddy

Telangana best performing state in sustainable growth in India

Hyderabad 30th Jan 2020

In a big thumbs up to the TRS government's efforts for development and growth of the State, the United Nations Development Programme (UNDP) India announced that Telangana has emerged as the best performing State in the country in promoting inclusive and sustainable growth and decent work for all in 2019.

According to the Sustainable Development Goals Index (SDGI) released by Niti Aayog, Telangana improved its performance from the previous year in eight out of the 17 SDGs. In the economic growth and decent work parameter, the State shot up from 75 per cent in 2018 to 82 per cent in 2019. Besides these two parameters, the State was ranked number one in 'Reduced Inequality,' third in 'Affordable and Clean Energy,' fourth in 'Climate Action' and fifth in 'Sustainable Cities and Communities.'

Marching ahead

- In economic growth, State moves to **82%** from **75%** in previous year
- Jumps to **61%** from just **16%** in industry, innovation and infrastructure
- Also tops with **84%** as against **55%** previous year in clean water and sanitation
- In SDG of sustainable cities and communities, TS improved from **44% to 62%**
- Records **93%** performance in affordable and clean energy as against **63%** earlier

DELIGHTED TO HEAR THAT TELANGANA IS DOING WELL WHERE IT MATTERS: INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH
K T RAMA RAO,
Industry Minister

Overall, Telangana was placed in third position in the SDGI with a score of 67 after Kerala and Himachal Pradesh. The State improved from its 2018 score of 61 and is now placed above the national composite score of 60 points. Significantly, Telangana also moved from the 'Performer' category (50 – 64 points) to 'Front Runner' category (65 – 99 points).

The State also took a quantum leap in 'Clean Water and Sanitation' moving up from 55 per cent to 84 per cent. In affordable and clean energy, TS recorded 93 per cent performance against 63 per cent in 2018. IT and Industries Minister K T Rama Rao, responding to the UNDP India's tweet, said: "Fabulous news. Delighted to hear that Telangana is doing well where it matters, inclusive and sustainable economic growth as per UNDP." The UNDP India had earlier tweeted: "Telangana emerged as best performing State in promoting inclusive and sustainable economic growth and decent work for all on SDG India index for 2019."

Telangana among top 3 states in NITI Aayog ranking

Hyderabad: 31st Dec 2019

In a clear indication of achieving significant progress in economy, poverty alleviation, zero hunger, health, education and other major developmental goals since achieving statehood, Telangana has been ranked 3rd in India in the Sustainable Development Goals (SDG) India Index rankings, released by National Institution for Transforming India (NITI) Aayog, the think-tank of the Government of India (GOI).

Last year, Telangana State was ranked 9th in the NITI Aayog rankings and this year, thanks to strides made in social and industrial sectors, the State has climbed six positions to emerge in top three in India. The top two positions in the NITI Aayog rankings were taken by Kerala and Himachal Pradesh, respectively, while the third position was shared by Telangana, Andhra Pradesh and Tamil Nadu with 67 points.



Interestingly, of the five top performing Indian States, Telangana is the only one that has displayed significant improvement in various sectors by improving its last year's score from 61 points to 67 points this year, while other Indian States had just registered incremental growth.

Kerala was ranked number 1 with 70 points, while last year it had scored 69 points and Himachal Pradesh was second ranked with 69 points. According to NITI Aayog rankings, Andhra Pradesh scored 67 points this year, while last year it scored 64 points.

TS number 1 in growth

The State is ranked number 1 in the category of 'Decent Work and Economic Growth', which is measured through Ease of Doing Business (EoDB), percentage of unemployment rate, labour force participation and per capital annual growth rate of Net Domestic Product.

Telangana State scored 82 points in this category, while last year it secured 75 points in the NITI Aayog rankings. In Ease of Doing Business (EoDB) indicator, Telangana scored 98.28 points (out of 100), which is the highest scored by any Indian State in SDG India rankings.

SDG India Index rankings (Overall)

| | | | |
|---------------|------------------|-------------|----------------|
| Rank 1 | Kerala | (70 points) | last year (69) |
| Rank 2 | Himachal Pradesh | (69 points) | last year (69) |
| Rank 3 | Telangana | (67 points) | last year (61) |
| Rank 3 | Andhra Pradesh | (67 points) | last year (64) |
| Rank 3 | Tamil Nadu | (67 points) | last year (66) |

Last year Telangana was ranked 9th

- This year, TS is ranked **3rd**
- TS best in economic growth and jobs
- State emerges frontrunner in 8 different sectors

Frontrunner in 8 categories

The NITI Aayog rankings have placed Telangana as a frontrunner in as many as 8 different categories. The categories in which Telangana has emerged as frontrunner include 'Good Health and Well Being', 'Clean Water and Sanitation', 'Affordable and Clean Energy', 'Decent Work

and Economic Growth', 'Reduced Inequalities', 'Climate Action', 'Life on Land' and 'Peace, Justice and Strong Institutions'.

The SDG India Index rankings were released in New Delhi by Vice-Chairman Rajiv Kumar, CEO Amitabh Kant and other NITI Aayog members.

Telangana leads the country in services sector growth

Hyderabad: 01st February 2020

In what can be described as another commendable achievement, Telangana has topped the list of states and Union Territories (UTs) in the country in the growth of services sector. According to the Economic Survey released by the Central government, during the five-year period from 2014-15 to 2018-19, the year-on-year growth of services sector in the State remained consistent at 11.5 per cent. Karnataka with 10.5 per cent occupies second place in the list.

However, Telangana's services sector share in Gross State Value Added (GSVA) in 2018-19 was 64.7 per cent, which placed the State in the sixth place in that list. The services sector growth, according socio-economic outlook of Telangana, was 11.3 per cent and it improved slightly over the years. During the last five years, State's economy performed well. By opening up several pathways for trickle down effect, the State government ensured that the benefits of growth and macroeconomic stability reach the bottom of the pyramid, especially in the services sector.

The average annual growth of the services sector was 11.3 per cent, followed by the secondary sector with an average growth of 6.1 per cent and primary sector with an average growth of 3.6 per cent, according to the TS' socio-economic outlook 2019. In the last five years, the services sector emerged as the major growth inducing sector in the State.

The share of services in Gross State Domestic Product (GSDP) increased significantly from 57 per cent in 2013-14 to 65 per cent in 2018-19. Growth in services has largely been fuelled by IT and business services. The State holds a leading position in IT & ITeS in the country in terms of production and exports.

KCR for 100 per cent literate Telangana

Hyderabad : 1st Jan 2020

With the aim of achieving 100 per cent literacy in Telangana State, Chief Minister K Chandrashekhara Rao has given a clarion call to every literate person in the State to educate at least one unlettered person and enable them to read and write. On the eve of the New Year, he extended greetings to people of the State and wanted them to march into 2020 with the slogan 'Each One – Teach One'.

The Chief Minister said it was a blot on the State that despite leading in several sectors in the country, Telangana was lagging in terms of literacy rate. He blamed the previous governments of undivided Andhra Pradesh for their failure to educate and improve the literacy percentage. "Our State should get over this. Let us all take pledge to make the State totally literate on the occasion of the New Year. Every educated person should educate an uneducated," he asserted.

'Take inspiration from stir'

Chandrashekhara Rao wanted people to draw inspiration from the collective efforts of entire population of Telangana State to achieve separate Telangana and also from completion of Integrated Household Survey in a single day, to turn the State into a fully literate State. "The State government will soon start an action plan for achieving cent per cent literacy rate. Every one should become a stakeholder in this movement and help us achieve Telangana State, a progressively inclined one," he urged.

In a release, the Chief Minister pointed out that within a short span of six years after the State's formation, Telangana had become a pioneer in several initiatives and was setting an example for others. He hoped that with several victories in its kitty and taking inspiration from them, the State would progress further in the New Year. "The State which was formed six years ago, made rapid strides in all the sectors and tasted success on various fronts. The State became a role model for other States in the country and won appreciation from many people, besides winning several international and national

awards. It is a moment of pride for all of us that in a short span of time, Telangana had become the number one State in the country," he stated.

Steady progress

Chandrashekhara Rao said the State was progressing and developing in all the sectors. After successfully overcoming power crisis, the State was now supplying uninterrupted, free and



quality power to the farm sector. The maximum power demand had reached 11,703 MW on a single day during 2019, setting new records. He stated that fruits of Mission Bhagiratha were reaching people and the State became the first one in the country to solve the drinking water problem permanently.

With speedy completion of pending irrigation projects, the Chief Minister felt that the State will soon eradicate famine permanently. He said the works pertaining to Kaleshwaram Lift Irrigation Scheme (KLIS) were on fast track and will achieve cent per cent results after it is completed by June next. "Telangana State became number one as far as implementation of welfare schemes is concerned. Through several welfare schemes, we could provide life security to the poor. We are also marching ahead in IT and industrial sectors," he said, expressing happiness. The State would become fertile and famine will be eradicated permanently from Telangana. The State has become number one in implementation of a host of welfare schemes to provide life security to the poor. The State is also marching ahead in IT and industry sectors too.

Telangana police receive e-Governance award

Hyderabad : 17th Jan 2020

The Telangana Police received the e-governance excellence award presented by the Computer Society of India at a function conducted at KIIT in Bhubaneswar. Deputy Superintendent of Police (IT Wing) K Venkat

Reddy received the award that was presented for integrating the police patrols with passenger cab services and HawkEye mobile application. CSI appreciated Telangana police for integrating the app for the safety and security of the women.

Piramal Pharma to invest Rs 500 crore in Telangana to expand operations

Hyderabad : 23rd Jan 2020



In a major achievement for Telangana, business giant Piramal Group has announced its decision to not only invest Rs 500 crore in the State but also to shift its plants from other States to new locations in Hyderabad, taking advantage of the ease of doing business without roadblocks offered by the State government. Minister for IT and Industries K T Rama Rao, leading the delegation from the State at the 50th edition of the World Economic Forum in Davos, clinched the deal after a series of deliberations with the group's business delegation headed by chairman Ajay Piramal at the Telangana Pavilion.

The group will invest Rs 500 crore, in the next three years, to expand operations of its pharmaceuticals division that manufactures life-saving medicines in Telangana State, to make it one of the best facilities globally in the sector. The proposed investment is expected to increase production capacities with creation of new manufacturing blocks, warehouse expansion, and utility augmentation, among other factors. A senior team from the company is expected to visit the new site next month.

KTR's assurance

Rama Rao welcomed the decision of Piramal Pharma to expand their operations in the State and assured them that the government will provide necessary assistance to the group. Currently, the company employs about 1,400 people, including staff and contract workmen employed at the site, and will have around 600 additional jobs by 2023 to support the expansion at an additional revenue of Rs 500 crore. In addition, close to 300 indirect manpower are engaged with the facility on a regular basis through various service contracts.

Piramal Pharma is also keen on adding capacities through acquisitions in and around Hyderabad which will support API manufacturing, run Corporate Social Responsibility (CSR) activities in the areas of primary healthcare (Piramal Swasthya) and safe drinking water (Piramal Sarvajal) in and around Digwal village. Piramal Pharma currently has a CGMP Active Pharmaceutical Ingredient (API) manufacturing facility in Telangana, approved by various regulatory agencies across the globe, including USFDA and EU. It comprises three units with multiple production blocks having a total reactor volume exceeding 1,000 KL. Its fully functional zero discharge facility meets all environmental norms, manufacturing close to 2,000 MT of finished goods, including leading APIs like Isoflurane, Diltiazem, Mebeverine, Ketoconazole that is exported to 60-plus countries.

Johnson lifts to set up production unit in Telangana

Hyderabad : 29th Jan 2020

Chennai-headquartered Johnson Lifts and Escalators has set its eyes on Telangana to set up a manufacturing unit. The steady momentum that Hyderabad and the State had been witnessing in the real estate sector is fuelling demand for lifts, according to Albert Dhiraviyam, its Country Head (Marketing). "We are keen on setting up a unit in Telangana. It could see an investment upwards of Rs 100 crore and will initially have a capacity to make 5,000 units. We initially set a target to be here in about four year or so. However, we will be open to come here early if the demand peaks," he said.

For now, Telangana is the biggest contributor for sales. It is expecting a turnover of Rs 200 crore from the State in two years. Telangana and Andhra Pradesh markets buy about 6,000 units a year, he said. Availability of trained manpower will be a factor that it will look at while deciding the investment in TS, he said. It now has four factories with a combined facility output of 16,000 units per annum. It is now doing about 12,000 units. The factories span 3 lakh sq mt and only 25% of the space is used so far. A new integrated and automated lift factory is now ready for production at Senguda in Tamil Nadu. This will be able to make an additional 6,000 lifts. "While we will look to use the available space first, we will not shy away from going to a new location if demand rises," he said. It now has about 22% market share and has in 2019 crossed a turnover of Rs 2,000 crore by delivering 12,000 plus units, the official said.

Real estate apart, it sees demand from regional airport development, modernisation of airports, railway and metro rail stations, bus terminals, foot-over-bridges. New range. The company has launched a High Speed Lift and a Villa Lift for Telangana market. The high speed one is suited for high-rise buildings of 30 to 40 floors. It will have a premium car finish and has a gearless motor. It will be able to travel at 2.5 m/sec. The Villa Lift, as the name suggests are for villas, will have special cabin interiors, glass doors and are ideal for use upto three floors with a speed of 0.6 m/sec. "More luxury villas are coming. Many are also asking for lift to aid the aging people in the houses," Dhiraviyam said adding that is working with multiple real estate developers.

Telangana government urges Boeing to set up Technology and Engineering division in state

Hyderabad: 28th January 2020

Boeing should consider Telangana as a hub for their 'Technology and Engineering' division, urged Minister for IT and Industries KT Rama Rao during a meeting with Boeing International president Sir Michel Arther. Rama Rao apprised the delegates and Arther of TSiPass, the State's industrial policy, and the



infrastructure that it has provided, leading to the growth of the aerospace sector in the State. He highlighted that the top five IT companies in the world - Google, Microsoft, Facebook, Amazon and Salesforce - have chosen Hyderabad to establish their largest campuses outside of the US, which is a testimony to the high quality workforce available in the State.

KTE also shared the State's desire to establish a world class Aerospace University in Hyderabad in partnership with the industry and global academic partners. He invited Boeing to be a key partner in the initiative. The Boeing team reportedly shared their delight on the progress made by Boeing's manufacturing facilities in Hyderabad, including the Apache and Chinook helicopter programmes.

Telangana IT and Industries minister KT Rama Rao welcomes Thai industries with open arms

Hyderabad: 19th January 2020

With an aim to transform Telangana into a hub for business establishments, Minister for IT and Industries KT Rama Rao urged a group of delegates from Thailand, headed by Deputy Prime Minister Jurin Laksanawisit, to set up their units at the proposed furniture park in the city. KTR said the State government could enter into an MoU with the Thailand government to set up the furniture park.



"Telangana is committed to providing housing to all the homeless, so I welcome the Department of Commerce, Thailand, to enter into an MoU with us. We are in the process of setting up the furniture park here. So the Thai furniture-makers can set up their base in Hyderabad and they can use this as a hub to cover the rest of India as well," he said.

Stating that the nearest seaport from Hyderabad was around 400 km, the IT Minister proposed providing subsidies and setting up inland depots for supporting the Thai industry in their business. He highlighted how Telangana has been excelling in different fields when compared to the other States. He explained to the delegation that Telangana has quite a large number of IT companies, and is also a life sciences hub, while it is home to a number of other industries. KTR said, "Our priority is food processing. Water will be supplied to farmers in the next couple of years, following which food production will increase exponentially."

Around 30 Thai companies, including those that deal with parawood and rubberwood, tapioca and modified starch, rubber products, MDF and particle board, food and processed food, paper, and banking and logistics services, were present at the event.

Telangana delegation turns heads at Davos meet

Hyderabad : 25th Jan 2020

The 50th annual meeting of the World Economic Forum (WEF) gave a fresh boost to Telangana in its endeavours towards attracting investments with an aim to create more jobs. The State bagged a Rs 500-crore deal with Piramal Group, besides promises for more investments shortly. Despite the presence of delegations from Karnataka and Madhya Pradesh, Telangana's created a huge buzz in Davos, catching the attention of world business leaders.



The four-day visit of the Telangana government's delegation, led by Minister KT Rama Rao, was hectic with the Minister meeting several big leaders from across the world, including Central Ministers from various countries and top executives of global corporations. He not only participated in over 50 bilateral meetings with head honchos of global corporations, but also addressed five engaging sessions with business and political leaders. Alphabet Inc. and Google CEO Sundar Pichai, Coca Cola CEO James Quincey, Salesforce founder and chairman Marc Benioff, and YouTube CEO Susan Wojcicki were among the top business leaders who discussed business opportunities in Telangana with Rama Rao. Several business entities evinced keen interest in investing in the State.

In his numerous meetings with top executives of MNCs, the IT and Industries Minister promoted Telangana as a progressive State with a strong and able leadership. He also outlined various resources available and how the State was consistently ranking high on the Ease of Doing Business index. He informed them about Hyderabad's rapid development in the past five-and-half years. The Minister also highlighted the city's cosmopolitan culture and the fact that it was ranked Number One in the Mercer Livability Index.

The government has set up an exclusive Pavilion on the Davos Promenade to showcase the business opportunities in Telangana. The aim of this visit was to showcase Telangana to multinational investors as an investment destination and thereby create more employment opportunities for the youngsters back home. The Minister was accompanied by Principal Secretary for IT and Industries Jayesh Ranjan, Director (Digital Media) Dileep Konatham and T Hub CEO Ravi Narayan.

Telangana delegation the busiest at Davos

Davos : 24th Jan 2020

India's soft power and software prowess were on display at Davos during the World Economic Forum's annual meeting. While Sadhguru Jaggi Vasudev championed the United Nation's new initiative to plant a trillion trees by 2030, US President Trump announced his support for the Trillion Trees campaign. Actress Deepika Padukone, who is a Unicef Goodwill Ambassador, received an award from the WEF for her foundation's work in spreading awareness about mental health issues. She used the global platform to stress the need for increasing philanthropic efforts to reduce poverty in the world.

You cannot miss the pavilions of Indian software majors — TCS, Wipro, Infosys, HCL, and Cognizant — on the Davos promenade. Wipro's food truck serving hot chocolate and waffles was a big hit with attendees walking from event-to-event. So too was the Tata group tea stall, with 'chai' to keep you warm in near zero-degree temperatures. HCL pulled out all stops in their hospitality, including Michelin star chef. All the tech companies held several power-packed sessions that attracted a large number of audience. The TCS pavilion is a beautifully designed dome and served as a fabulous venue for their events. Tata group conducted a very insightful panel discussion (which included Microsoft CEO Satya Nadella) on "Bridgital Nation", the new book co-authored by Tata Sons chairman N Chandrasekaran and Tata group's chief economist Roopa Purushothaman.

The government delegations and Confederation of Indian Industry (CII) teams were seen working hard, preparing for and rushing from back-to-back meetings with potential investors. Madhya Pradesh Chief Minister Kamal Nath said the first thing a foreign delegate told him on seeing "Madhya Pradesh" on his badge was the Bhopal gas tragedy. He said his government was working hard to highlight the positive aspects such as tourism and opportunities in infrastructure. Karnataka Chief Minister BS Yediyurappa and Industries Minister Jagdish Shettar met potential new and existing investors in the State. Union Minister Piyush Goyal present at the Karnataka session emphasised the opportunities for global businesses in India's target of becoming a \$5 trillion economy.

Business networking seems to come naturally to the Telangana team and perhaps they were the busiest of all the State delegations. In my view, the healthy competition between the two southern States — Telangana and Karnataka — will be interesting to watch. The annual Davos meeting is an important avenue to put a State on the global investor map and perhaps other States that did not participate in 2020 should consider becoming part of the event in future.



Davos is not just about business and government, but there is also a lot of focus on the non-profit sector. Among the programmes, I attended an event of philanthropist and angel investor Asha Jadeja, and her energetic team deserve kudos for the Jadeja Motwani Foundation's (JMF) week-long sessions on a range of topics such as sustainability, startups, improvements to public policy environment, women leadership and more.

Davos was also bustling with the spirit of activism and this year, it was the children who were in the forefront. Climate activist Greta Thunberg led a group of children, demanding that the grownups get more serious about addressing the environmental challenges of our planet. And their slogan was "Oceans are rising, and so are we". There is a quote "the young do not know enough to be prudent, and therefore, they attempt the impossible and achieve it, generation after generation." I think we are just seeing that happen in front of our eyes.

KTR promotes Telangana as an investment destination

Hyderabad : 24th Jan 2020

IT and Industries Minister KT Rama Rao continued his efforts to promote Telangana as an investment destination on the day of the World Economic Forum at Davos. He held bilateral meetings with industry leaders from across the world. Saudi Communications Minister Abdullah Alswaha interacted with him at a business gathering. The IT Minister invited the Saudi Minister to visit Hyderabad to explore potential collaboration opportunities. Mahindra Group chairman Anand Mahindra also met KTR at Davos.

Ms Camilla Sylvest, executive vice president, Commercial Strategy and Corporate Affairs, Novo Nordisk – the Danish multinational pharmaceutical company, met K Taraka Rama Rao at the Telangana pavilion and discussed possible collaboration with RICH and BioAsia. Novo Nordisk has a market cap of \$114 billion with over 40,000 employees globally.

In another meeting, Sanjay Mehrotra, chief executive of Micron Technology, met Minister KTR and held discussions on partnering to support Hyderabad's economic development. Coca Cola CEO James Quincey and KTR met at a business gathering on the sidelines of WEF in Davos. The Minister had a brief conversation with CEO of YouTube Susan Wojcicki. During their interaction, the latter informed Minister that Hyderabad is a priority centre for YouTube.

David Loew, executive vice president and head of Sanofi Pasteur, met Minister KTR. Sanofi Pasteur is the largest company in the world devoted entirely to human vaccines. Hyderabad's robust life sciences and pharma ecosystem, emerging trends in Digital Drug discovery and use of AI, ML in the pharma industry, emerging trends in vaccine manufacturing were among a host of issues discussed in the meeting.

KTR also met Minister of SMEs and Startups of Republic of Korea Park Young-Sun. During the meeting, the latter emphasised the need for deregulation with respect to innovative enterprises. Amazon Web Services vice president, Global Public Policy Michael Punke, met Minister KTR. Interestingly, Michael Punke is also the author of the book *The Revenant*. Deep Nishar, the senior managing partner SoftBank Investment Advisers, met the working president of the TRS party. Chris Johnson, EVP and CEO Asia, Oceania, Nestle met Minister KTR. During the meeting, the Minister explained about various State government initiatives aimed at developing agriculture and animal husbandry sectors. He also discussed the food processing opportunities in Telangana.



Telangana focused on tapping raw talent, says KTR

Hyderabad : 24th Jan 2020

Clarity of thought and the ability to drive home a point have been the hallmark of IT and Industries Minister KT Rama Rao, which he has displayed on numerous occasions in the past. The Minister was in his element again in an interview with a television channel in Davos, when he laid out the roadmap chalked out by Telangana on how it intended to harness the strong potential it has in innovation and technology.

The Minister spoke about the various initiatives it has rolled out - T-Hub, Telangana Academy for Skill and Knowledge (TASK) and Research and Innovation Circle of Hyderabad (RICH) - to promote startups and technology and to tap talent. He also outlined how upcoming projects such as Image Towers, Telangana State Innovation Cell (TSIC) and T-works will catapult the State into a much higher orbit in the tech world. "When we started the journey in 2014, there were just 200 startups in Hyderabad. The city now has more than 2,000 after we launched T-Hub,

which is the country's largest technology incubator," Rama Rao said in an interview with CNBC TV18 on the sidelines of the 50th meeting of the World Economic Forum in Davos. "The most beautiful thing is that unlike any other city in India or possibly across the world, we have a unique ecosystem with large scientific labs, such as CCMB and Icrisat, working with the government. As far as plans to move forward are concerned, I am upbeat about TSIC, which is a concept to promote social and rural innovation," he said. He pointed out that Telangana was the only State to have a designated Chief Innovation Officer who can inspire more local youth to venture into the field of technology.

Stating that the second phase of T-Hub, to be launched soon, would be the world's largest incubator, Rama Rao said the facility would be spread over 4,00,000 sqft, and seat about 4,000 startups and accelerators. "The next big thing to happen will be Image Tower, which will come up in 2021, besides TSIC. The State government has also rolled out RICH where industry and academia work together on applied research with goals that are relevant to societal needs," he said.



Asked about how the State intended to push technology and innovation into Tiers 2 and 3 cities, the Minister, in a candid reply, said: “I believe that the smaller town guys actually have more fire in them. I do believe that but for lack of a platform or opportunity to showcase their skills, they are equally capable if not more than the people in metros”.

Elaborating on the government’s plans in this direction, he said TSIC plays a major role in this initiative by actively engaging with Intermediate and degree students across the State. He cited ‘Intintiki Innovator’, a recent initiative launched by the government to encourage schoolchildren. “We have been encouraging kids to come out with their own home-grown innovations and facilitate showcasing of their ideas. In fact, the government funded some of them to scale up their innovations. Once we find a raw spark somewhere, we pick them up and bring them to T-Hub, help them scale up and even find access to funding,” he said.

On TASK, Rama Rao said the facility works with industry and educational institutions to make sure there is alignment of industry needs and that “our children are job-ready when they come out”. “A more interesting initiative is a model we are working on where students of engineering and other professional courses start working in the industry towards the end of their course. This helps the youngsters get exposure to the real world. From the industry perspective, companies get to cherry-pick the best talent,” he said.

KTR believes in jugaad

“I am a firm believer in jugaad”, was how IT and Industries Minister KT Rama Rao responded when asked about how the Telangana government intended to tackle budgetary allocations to give a thrust to innovation and technology in the State.

“Unless you collaborate with the private sector, unless you engage with them actively, I don’t think you are going to be able to pull off all your ambitions,” the Minister said in an interview with a news channel on the sidelines of the World Economic Forum (WEF) meeting in Davos.

Giving the example of Image Towers coming up in Hyderabad, Rama Rao said the Rs 1,200-crore project was taken up under the PPP mode. “The private sector is helping us in the construction of the towers, while the government gave the land,” he said, adding that the same method was adopted in the case of RICH too. “The most important lesson I have learnt in the last five years is that once you build infrastructure, the government should not poke its nose into these wonderful facilities. They should not become another sarkari daftar (government office),” he said. The State government, to prevent this, hired truly talented people from the private sector to run institutions such as T-Hub and TSIC. “We let them run the show,” he added.

Telangana government plans Sanitation Hub with Rs 25 crore seed fund

Hyderabad: 01st February 2020

In a bid to make cities and towns hygiene-friendly, Municipal Administration Minister KT Rama Rao announced the establishment of Sanitation Hub (S-Hub), an incubator for promoting startups and innovations in water, sanitation, solid waste management and waste water recycling areas. A seed fund of Rs 25 crore will be earmarked for this initiative.

Addressing delegates at the valedictory session of Ink Wash Summit here, Rama Rao said that the S-Hub would undertake incubation ideas and build an ecosystem for innovation, knowledge dissemination, capacity building, in water, sanitation and hygiene (WASH) sector. The State government has proposed to house the S-Hub at the Administrative Staff College of India (ASCI) for two years and then set up a dedicated facility at the proposed Centre for Urban Excellence.

The State government has prioritised the WASH sector and that it was committed to achieving the set targets well ahead of the globally-agreed timelines, the minister said. “The government aims to transform Telangana into a hub for water and sanitation innovations in the country,” Rama Rao said.



The minister also said that the Urban Local Bodies (ULBs) in Telangana have achieved ODF status and are forging ahead to meet ODF++ protocols through safe management of faecal sludge and septage at 71 ULBs under the PPP format.

The minister stated that the State government was striving to universalise access to individual household tap connection and safe sanitation in all its urban local bodies. Telangana's new Municipal Act is citizen centric and trust-based and took right approach to water and sanitation services and other municipal services

Spices Board regional office comes to Nizamabad

Nizamabad: 05th February 2020

In what may sound like music to the ears of Nizamabad turmeric farmers, the Central government announced the decision to establish a Regional Office & Extension Centre of the Spices Board in Nizamabad at the earliest. An announcement to this effect was made by Union Minister for Commerce & Industry Piyush Goyal at his office on Parliament premises in New Delhi in the presence of Nizamabad BJP MP Dharmapuri Arvind. Though they have been urging the government to set up a turmeric board for long, the announcement brings some relief to the farmers as the regional office may help in resolving the issues related to turmeric farming.

Speaking on the occasion, Goyal said that the decision to set up the Spices Board's regional centre was taken following a request from MP Arvind while adding that a notification will be issued in this regard. The farmers have been demanding a turmeric board. But the board will have some limitations and it will not be possible to provide comprehensive services to the farmers. So it was decided to establish the Spices Board's regional centre which will function directly under the supervision of the ministry, he said.

The regional office, to be headed by an IAS officer as Director and who will report directly to the Ministry of Commerce & Industry, will address the issues related to turmeric, chilli crops and other spices and it will work in coordination with Department of Agricultural, Horticultural, and Ministry of Consumer affairs.

Minister Goyal said that the regional office will provide necessary assistance to the farmers and help them in quality-oriented crop cultivation, achieve good yields and increase production. Establishing the Spices Board Regional Office is to help farmers boost exports and attract foreign investors, Union minister Piyush Goyal said. The office will implement

all schemes related to these farmers, including Trade Infrastructure for Export Scheme (TIES) to create appropriate infrastructure for development and growth of exports, he explained. While expressing confidence that the new office will fulfil the farmers' aspirations, the Minister said the office will be more useful to farmers of Adilabad, Nizamabad, and Karimnagar. Earlier, RP Kanchan, Assistant Director of Ministry of Commerce and Industry, in a circular to the Spices Board, said: "Strengthen activities of Spices Board in Telangana, for spices, especially for turmeric. The Divisional Office in Nizamabad will be upgraded as a regional export promotion centre in coordination with State government."

The Spices Board has also given instructions to organise buyer-seller-meet, for spices including turmeric, to establish direct linkage between farmer groups and exporters for better price realisation by the farmers on priority basis, he said. Besides MP Arvind, Adilabad MP Soyam Babu Rao, BJP State committee member Baswa Lakshmi Narsaiah, BJP District President P Gangareddy were also present when Minister Goyal made the announcement.

Meanwhile, BJP national general secretary Ram Madhav congratulated the people of Nizamabad and north Telangana and said: "I would like to congratulate MP D Arvind as his drive and determination has finally led to Modi government taking a decision to establish the Spices Board regional office in Nizamabad. It will have all the powers of the Spices Board and TIES."

Telangana planning to set up Aerospace University : KT Rama Rao

Hyderabad : 9th Jan 2020



Industries and IT Minister K T Rama Rao disclosed that Telangana was planning to establish a world class aerospace university in partnership with the industry and global universities. Speaking at the curtainraiser event for Wings India 2020 on New Delhi today, the Minister also announced that efforts were on to make Warangal airport functional to help boost regional air transport, support the mega Textile Park and the IT hub launched in Warangal recently. Similarly, a heliport was also being planned at the Warangal airport.

Wings India 2020 is an international exhibition and conference on civil aviation sector slated to be held in Hyderabad in March. Global Aviation Summit, which used to be hosted in Mumbai, is also being organised in Hyderabad this year, the Minister said. During his speech, KT Rama Rao underlined the phenomenal growth of Telangana on all parameters and said the State had emerged as the most exciting and well-supported Aviation and Aerospace ecosystem in India. Dwelling at length on the rapid progress achieved by Telangana in various fields, especially those connected to fields of aviation, drones, aerospace and defence. He said Telangana achieved a stupendous 14.9 per cent GSDP growth in 2018-19 and the State stood at the top on World Bank's Ease of Doing Business rankings two years in a row. Telangana's industrial policy TS i-Pass was rated as the best in the country and the cosmopolitan city offered best infrastructure and a pleasant weather almost throughout the year.

Giving an overview of the initiatives that helped the State carve itself a niche, Rama Rao pointed out that Aviation and Aerospace was a thrust sector for Telangana. During the last edition of Wings 2018, Telangana won the Best State Award for the State with most progressive outlook in the Sector. He reminded the participants that Telangana was one among the first States to slash the VAT on ATF from 16% to 1% setting an example for other States. This decision gave a significant boost to regional airline industry, prompting leading operators such as Spice jet and Indigo to expand their operational base in Hyderabad.

The State's primary airport, the GMR Rajiv Gandhi International Airport was adjudged the Best Airport in its class and had won the awards for the Best Regional Airport and the Best Airport Staff Service, in the SkytraxWorld Airport Awards in 2019. He pointed out that the State was now planning to re-activate old airports, create green-field airports and establish a chain of heliports to connect the remote parts and sought Centre's funding support for creating infrastructure. These initiatives would help connect distant districts like Adilabad and also allow easy access to high footfall Tourist destinations such as Yadadri. Efforts were also on the way to Warangal airport functional. This could boost regional air transport and support the Mega Textile Park and the Information technology hub launched in Warangal. "We also intend to open a Heliport in Warangal Airport on subsidy basis", he disclosed.



In addition to this, a greenfield airport was being planned at Kothagudam connecting the coal belt, mines and power sector ecosystem around Khammam district. An airport is also proposed at Jakranpally in Nizamabad to support the upcoming Pharma City NIMZ. The State was focussing on Maintenance Repair and Overhaul (MRO) as it provided a great opportunity for investment and high value employment creation besides helping Hyderabad turn into a hub for Airline and Engine MROs activities. Telangana currently has two MROs operated by GMR and Air India. Various OEMs and operators vouchsafe for the best infrastructure and ecosystem and skill base for MROs in India.

First State with drone policy

K T Rama Rao pointed out that Telangana was the first State to come up with its own Drone policy to develop an ecosystem for the drone/ UAV industry. The government was actively working with start-ups and industry partners to pilot drone use-cases in Healthcare, Agriculture, Mining, Law enforcement etc. The State has envisioned Telangana Drone city to support Drone testing, skilling R&D and Commercialisation.

He drew the attention of the participants to the growth in Aerospace sector achieved in Telangana in the past five years and said Hyderabad emerged as the most preferred

aerospace manufacturing destination in India for Global OEMs. Leading Aerospace majors like Lockheed Martin, Boeing, GE, Safran, Rafael, Elbit have established their mega manufacturing facilities in Hyderabad. Amongst leading Indian players, TATA group did more than 90% of their Aerospace manufacturing from Hyderabad. Adani Group and Kalyani Group were also expanding their Aerospace and allied projects in Telangana. "We also have a strong local private industry with over 25 large companies and over 1,000 MSMEs and many of them are already integrated to global OEM supply chains", the minister recounted.

Four dedicated aerospace parks

On the infrastructure front, he said Telangana had four dedicated Aerospace parks, over 50 general engineering parks to cater to precision engineering industry. Besides this various Electronics Manufacturing Clusters, Hardware parks and Technology SEZs also host a large number of Aerospace firms.

The biggest strength of Hyderabad aerospace ecosystem, was the availability of highly skilled and industry ready workforce. To make world class skilling accessible at affordable rates, the State partnered with global institutions. Embry Riddle Aeronautical University (US), Cranfield University (UK) and Aerocampus Aquitaine (France) offer need-based Aerospace certification courses in Hyderabad at relatively affordable rates. State run skilling agency – Telangana Academy of Skill and Knowledge (TASK) runs various job oriented aerospace skilling programmes.



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TRS pitches for States' role in infra projects

Hyderabad : 2nd Jan 2020



The ruling TRS strongly pitched for the States being taken into confidence by the Centre before finalising mega infrastructure projects proposed to be taken up in the country over the next five years. Union Finance Minister Nirmala Sitharaman unveiled plans for mega infrastructure projects with an investment of Rs 102 lakh crore by 2024-25, with the Centre, States and the private sector to share the capital expenditure in a 39:39:22 formula.

Further, the party has proposed a Southern industrial corridor between Hyderabad, Chennai, and Bengaluru on the lines of the Delhi-Mumbai Industrial Corridor to promote industrial development in the States of Karnataka, Telangana, Andhra Pradesh and Tamil Nadu. TRS working president and Minister KT Rama Rao, in an informal interaction with mediapersons at Telangana Bhavan, demanded that the Centre must take all the States into confidence to sanction such mega infrastructure projects judiciously, rather than allocating them to States with similar political interests. "Economically stronger States like Telangana must be supported by the Centre to ensure a stronger economy for the nation. If the Centre decides otherwise, it will have severe impact on national economy," he observed.

Proposing the Southern industrial corridor, Rama Rao felt that the corridor will attract immediate investments due to conducive atmosphere prevailing in all four

States and thus, will boost national economy due to industrial development. He pointed out that he stoutly opposed the Centre's decision to establish a defence corridor in Bundelkhand as Bengaluru and Hyderabad had a good ecosystem due to presence of defence institutions for the past a few decades. Despite a request from the State for sanction of the defence corridor, the Centre is yet to respond.

Kakatiya Textile Park

The Minister emphasised the need for mega industrial parks in the country to compete with countries like China and boost its economy. While Telangana government took up Kakatiya Mega Textile Park in Warangal, the Centre had recently proposed establishment of 12 new mega textile parks across the country and asked the State government to submit its proposals in this regard. "Instead of a new textile park, we requested the Centre to approve Kakatiya Mega Textile Park as a joint venture between the Centre and the State. We are awaiting for a response," he added.

Responding to a question on Citizenship Amendment Act (CAA), the TRS working president reiterated that the party had made its stand clear in Parliament and strongly felt that it will not affect the party's future prospects in the State. "People in the country, including Telangana State, are clever enough to understand our opposition to the Act. It need not be looked into as a religious issue. We opposed it because it was biased and against the Constitutional spirit. We would have voted in favour, if the BJP government did not differentiate between refugees on the basis of religion," he explained. He said with regard to implementation of National Register of Citizens (NRC) and National Population Register (NPR), the Chief Minister was consulting experts and will take an appropriate decision at an appropriate time.

No differences with AP

Rama Rao ruled out any differences with Andhra Pradesh Chief Minister YS Jagan Mohan Reddy following the latter's decision to increase the drawing capacity of Pothireddypadu head regulator and Srisailem Right Main Canal (SRMC) to 80,000 cusecs from the present capacity of 44,000 cusecs. "Chief

Minister Chandrashekhar Rao believes in ‘Love Thy Neighbour’ and we have cordial relations with all our neighbouring States. Thus, we could complete Kaleshwaram Lift Irrigation Scheme. We will resolve any differences through mutual cooperation,” he said. He pointed out that Chief Minister Chandrashekhar Rao maintained cordial relations with Andhra Pradesh even during the rule of N Chandrababu Naidu.

The Minister stated that both Telangana and Andhra Pradesh governments did not take any decision with regard to the proposal for inter-linking Krishna and Godavari Rivers. Similarly, the State government is yet to take a decision on acquisition of a port in neighbouring Andhra Pradesh, for its operations. He stated that the proposal to establish a dry port at Nakrekal was still alive and discussions were on with private landowners for necessary land. He also felt that water aerodromes will be beneficial for Telangana State after completion of its irrigation projects, rather than small airports.

Telangana: Eight MoUs and two pilot projects launched in AI

Hyderabad: 3rd Jan 2020



Marking 2020 as the Year of AI, the Telangana government signed eight memorandums of understanding (MoUs) with companies, including Intel, Nvidia, Adobe, and academic institutions such as IIT-Kharagpur, IIIT-Hyderabad and IIT-Hyderabad. Along with the MoUs, the Telangana government will also take up pilot projects called IGRS Medha chatbot wherein the chatbot will answer public queries for

the Stamps and Registration Department. Another project launched was the Telangana AI-based crowd estimation and management application which will be used by the police and transport departments.

Intel, Public Health Foundation of India and IIIT-Hyderabad will jointly set up a research centre in applied AI in healthcare and smart mobility, while IIT-Kharagpur will look at setting up a research and development park and centre of excellence in AI in Hyderabad. Similarly, Nvidia will work as a technology partner for Telangana government and will collaborate with various incubators in the areas of data sciences and set up a High Performance Computing AI centre.

IIT-Hyderabad which already has a separate department of AI and is the only institute to provide a bachelors programme in AI, will work with the State government as strategy partner in using AI in transportation and healthcare. While Adobe will look at capacity building and mentorship in AI through its MoU, the Wadhvani AI will run projects in agriculture and healthcare using AI. The MoU with Hexagon looks to train school students on AI through its three month programme along with organising Hexathons (Hexagon hackathons) in Hyderabad.

Lastly, an MoU with Norwegian Cluster for Applied AI was signed to set up joint R&D centres with European Commission for AI startups. Speaking at the event, vice-president of Data Centre Group, Intel Corp, Nivruti Rai said, “AI is going to create \$13 trillion to the world economy. By using AI in healthcare, we will look to increase access in reach to patients and we aim to make Telangana the first State to transplant organs to living human beings, which will in turn lead to an increase in organ availability by 30 per cent.”

Telangana government signs pact with MEC

Hyderabad : 5th Jan 2020

The Government of Telangana and Mahindra Ecole Centrale (MEC) College of Engineering, Hyderabad, have signed an MoU in the area of Artificial intelligence (AI). As per the MoU, Mahindra Ecole Centrale will provide skill development and consultancy in AI segment and extend



their Supercomputer Lab facilities for individuals and startups to build compelling propositions and solutions in the area of Artificial Intelligence.

“Public Private Partnerships and sharing of resources is the way to learn and move way forward in the future. Government of Telangana is committed to building a startup ecosystem and we are happy to partner with the Government in helping the young entrepreneurs undertake even bigger strides in the area of Artificial Intelligence. MEC’s focus on setting up world-class labs for the people researching / working in the segment will hopefully create a viable AI ecosystem in the state and the country at large,” said Dr. Yajulu Medury, Director, Mahindra Ecole Centrale.

Mahindra Ecole Centrale launched its Supercomputer Lab in August 2019 and is already working on several projects on Artificial Intelligence and Deep Learning. In order to address the requirements for faster computing

performance and providing a robust platform for Deep Learning & Analytics and multi-disciplinary engineering simulations, the MEC Supercomputer lab was established at the MEC campus.

At the same time, the Indian Institute of Technology Hyderabad too is going to collaborate with the Government of Telangana for research on Artificial Intelligence. The Institute is partnering with the Information Technology, Electronics and Communication (ITE&C) Department, Government of Telangana, for building/identifying quality datasets, along with third parties such as the industry. They will also work on Education and Training to prepare/deliver content and curriculum on AI courses to be delivered to college students along with industry participants. An MoU to this effect was signed by Prof B.S. Murty, Director, IIT Hyderabad, and Mr. Jayesh Ranjan, Principal Secretary Departments of Information Technology (IT) and Industries and Commerce (I&C).

Telangana GENCO awarded for excellent e-governance

Hyderabad: 19th Jan. 2020

TS GENCO was conferred with the CSI SIG e-Governance Award of Excellence at the 53rd Annual Convention of the Computer Society of India (CSI) held on January 17 at Kalinga Institute of Industrial Technology at Bhubaneswar. Director General for MCR HRD Institute and Special Chief Secretary in General Administration Department, BP Acharya, congratulated the corporation for their splendid work in the field of Information Technology.



TS GENCO, in line with its business strategy and expansion plans, replaced the existing in-house software application by implementing centralized ERP solutions across all its plants and corporate offices.

The ERP initiative was christened as 'TSSHAKTHI' (TS GENCO System to Harness Ample Knowledge Transformation for Harmony and Integration) as it promises to lead a new era of information management in the organisation. The TS GENCO stations and headquarter have been using the SAP ERP system since August 2013.

The key benefits of TS GENCO's e-office including real time tracking of files to multiple stakeholders with improved transparency and accountability, online movement of digital files with preconfigured workflow, quick and easy retrieval of digital files and reduction in paper consumption.

Telangana at fourth place in energy conservation in the country

Hyderabad : 13th Jan 2020

State Energy Efficiency Index 2019

Telangana stood fourth among the States in the country in conserving energy. It also stood in the "contender" category along with Tamil Nadu, Andhra Pradesh, Maharashtra, Madhya Pradesh, Gujarat, Uttar Pradesh and Punjab as per the State Energy efficiency report 2019, published by the Bureau of Energy Efficiency, Ministry of Power, Government of India.

Telangana achieved the recognition in energy efficiency in the sectors of Buildings, Industries, Municipalities, Transportation , Agriculture, Discoms, and cross sectors. Telangana stood first in energy efficiency in Municipalities, second in cross sectors, achieved third position in domestic sector and transportation, fourth in

industries, and seventh in Agriculture. Telangana was recognized, especially for its streetlighting programme and audit.

According to the report, the Telangana government is the frontrunner as permissions for all new commercial buildings were given only through online Development Permission Management System (DPMS) where ECBC (Energy Conservation Building Code) is a mandatory document certified by a Third Party Administrator (TPA). None of the States has made any efforts on benchmarking energy intensity of commercial buildings like Telangana, though Kerala has conducted a base lining study. Telangana and very few other States, including Delhi, has a comparatively higher penetration of green buildings per connected electricity consumer.

Minister releases report

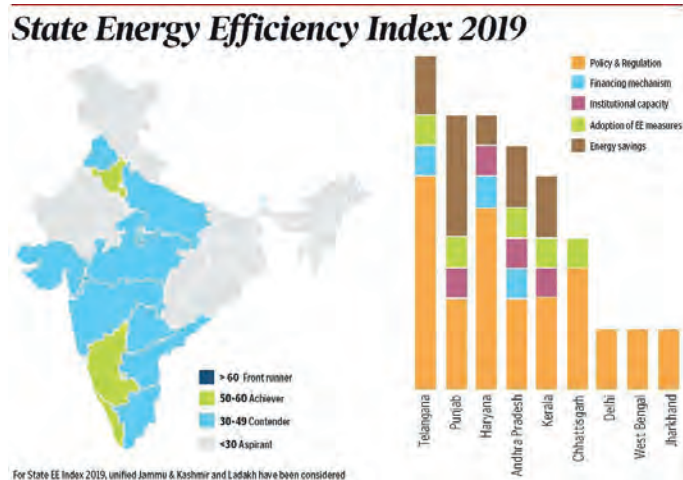
The report, which was released by Union Energy Minister RK Singh in New Delhi, is based on data collected by Alliance for an Energy Efficient Economy (AEEE) from State Designated Agencies (SDA), and from data available in State and Central government reports. States were categorized as 'Front Runner', 'Achiever', 'Contender' and 'Aspirant' based on their efforts and achievements towards energy efficiency implementation. The top performing States were Haryana, Kerala and Karnataka, which were kept under the 'Achiever' category. "Since there is no 'Front runner' State, it can be inferred that a lot more can be done at the State level to realize energy savings from energy efficiency," the report said.

Audits mandatory in TS

The State Energy Efficiency Index 2019 assessed 36 States and Union Territories across 97 indicators. Regarding Energy Conservation Building Code (ECBC) 2017, six States have amended the code to suit regional and local conditions and have notified the code in the State's official gazette. Four States have incorporated ECBC 2017 in municipal building bye-laws, including Telangana. The State has incorporated energy efficiency norms in public procurement guidelines for lighting and appliances and made energy audits mandatory for commercial building consumers.

In the industrial sector, 35 industrial units across 13 States reduced their energy intensity through the adoption

of EE measures, based on data gleaned from energy conservation awards. On a positive note, 11 States have installed centralized control and monitoring systems for streetlighting in some municipalities within the State. In the transport sector, six States have released Electric Vehicle (EV). The report called for States to demonstrate an approach of enforcement and compliance checks. Rules related to mandatory energy audits, mandatory sale and purchase of BEE star labelled appliances will not be effective unless the inspection process is established and strengthened. States must also make independent monitoring and verification of savings integral to all EE policies and programmes.



Telangana government discusses collaboration with US-based software firm Salesforce

Hyderabad: 29th January 2020

A delegation Salesforce, a cloud-based software company based in the USA, met IT and Industries Minister KT Rama Rao to "discuss collaboration opportunities on a wide range of issues from to AI to reforestation". Parker Harris, CTO and co-founder of Salesforce, tweeted, "Wonderful to meet dynamic Telangana @MinisterKTR to discuss collaboration opportunities on a wide range of issues from to AI to reforestation. Thank you @KTRTRS for supporting the growth of @Salesforce in #Hyderabad."



Earlier, the company had announced to create 5.48 lakh jobs in India by 2024 and USD 67 billion in new business revenues. Salesforce had established a Centre of Excellence in Hyderabad in 2016. It had also said that the company wanted to hire 1,000 employees in the city by 2020.

KT Rama Rao to speak on smart cities at Harvard meet

Hyderabad 03rd February 2020

Industries, IT and Municipal Administration Minister KT Rama Rao has been invited to speak on smart cities in India at the India Conference-2020 to be organised by Harvard University. According to official sources, the conference would be held on February 15 and 16 at Harvard Business School in Boston in the US. The organisers have invited important personalities for the 17th conference which has the theme '2020/20 foresight'.

The organisers felt that KTR would be the right person to speak on smart cities since he has been handling IT and Municipal Administration portfolios in Telangana State, a press release said. This is the largest conference to be held on issues related to India which is being jointly hosted by Harvard University and Harvard Kennedy School. About 1,000 delegates are expected to attend the conference from both the United States and India.

Young professionals, industry leaders, American-Indians representing various companies in the US, students and professors from various universities would deliver lectures on various aspects.

Apart from KTR, eminent personalities including Arvind Subrahmanyam, Arun Poorie, Suresh Prabhu, Jayant Sinha, Anupam Kher and Ritseh Agarwal would speak at the conference, the press release added.

T-Fiber to bridge digital gap

Hyderabad : 3rd Jan 2020

Telangana Fiber Grid (T-Fiber) is an initiative envisioned to establish a state-of-the-art broadband network to enable the fulfilment of 'Digital Telangana' objective, by making utilisation of the drinking water project-Mission Bhagiratha. The project ensures access to internet connectivity to the rural Telangana. T-Fiber aims to provide affordable and high-speed broadband connectivity and digital services to 10 zones (33 districts), 589 mandals, 12,751 gram panchayats, 10,128 villages, 83.58 lakh households and over 3.5 crore people. Through the initiative, Telangana Government wants to deliver Government to Citizen (G2C) and Government to Government (G2G) services-by providing high speed broadband connectivity to government offices, educational institutions, hospitals, banks and other public service institutions.

The project ensures bandwidth provision and/or infrastructure to various operators on non-discriminatory and non-monopolistic manner without entering into competition with them. As the project relies on Mission Bhagiratha, which provides drinking water to rural Telangana, T-Fiber saves digging and trenching costs, which would have otherwise incurred if the project was conceptualised and implemented independently.

Digital Telangana
To offer digital and e-governance services to **10,128 villages** in 33 districts

- Govt offices, academia, hospitals, banks and public service institutions to benefit
- Utilising Mission Bhagiratha will save on costs arising from digging and trenching
- Project part of Centre's BharatNet initiative to connect **2.5 lakh gram** panchayats
- Companies such as Sterlite, Cisco, Nokia, Hewlett Packard and Apollo Hospitals partner

T-Fiber aims to provide broadband connectivity to over 3.5 crore people

As a part of Telangana's overall efforts to embrace technologies and infrastructure towards digital transformation, the Government of Telangana is building and leveraging the broadband infrastructure under BharatNet, which aims to provide connectivity to all 2,50,000 gram panchayats in the country. As a State-led programme, Telangana Government has initiated T-Fiber to provide broadband connectivity up to the household level across the State. Sujai Karampuri, MD, T-Fiber & director, ITE&C Department, Government of Telangana says, "This initiative will work as a digital revolution that would bridge the digital gap between urban and rural India. With T-Fiber project, we aim to provide an infrastructure for affordable and high-speed broadband connectivity and digital services across the State."

Telangana Fiber Grid Corporation Ltd, responsible for the implementation of the project has recently awarded a contract worth Rs 1,800 crore to Sterlite Technologies Ltd (STL), which will provide end-to-end network connectivity by deploying 64,000 kms of OFC (Optical Fiber Cable) Network across 11 districts, 3,000 gram panchayats of Telangana, bringing high-speed broadband connectivity to six million rural citizens. The contract will be executed within two years. Besides Sterlite Tech, T-Fiber has roped in several government agencies and private companies for various purposes. Companies such as Bharat Broadband Network Limited (BBNL) and L&T Construction are acting as connectivity partners; Cisco, Nokia and Tejas are acting as technology partners;

and companies such as Hewlett Packard, Cisco, Apollo Hospitals, D-Link, Micromax and Celkon are participating in the initiative as service partners.

Digital Telangana

- T-Fiber aims to provide broadband connectivity to over 3.5 crore people
- To offer digital and e-governance services to 10,128 villages in 33 districts
- Govt offices, academia, hospitals, banks and public service institutions to benefit
- Reliance on Mission Bhagiratha avoids cost arising from digging and trenching
- Project part of the Centre's BharatNet initiative to connect 2.5 lakh gram panchayats
- Companies such as Sterlite, Cisco, Nokia, Hewlett Packard and Apollo Hospitals partner

Telangana: 2020 announced as Year of AI

Hyderabad: 2nd Jan 2020

The government of Telangana has announced 2020 as the Year of AI and plans to make the next decade as Telangana's decade of AI with an aim to establish Hyderabad as amongst the top 25 Global Artificial Intelligence (AI) Innovation Hubs. Speaking at a meet, the Telangana IT Minister K T Rama Rao said, "In line with our vision and our approach, AI will be our focus for the coming year and beyond. While we are calling 2020 as the Year of AI, this event will set in motion a set of initiatives, which will potentially make the next decade as Telangana's decade of AI. And the State is ready to capture the global AI opportunity." Rama Rao informed that Telangana, having established itself as a pioneer in IT and innovation is quick to adapt to the needs of the rapidly transforming AI industry. And in line with the national strategy, the State has decided to take a focused approach for AI and take it to the next level, setting an example for other States to follow suit.

The government plans to attract and enable 200 AI innovators/startups leading to a valuation of \$3-4 billion to build their base in Hyderabad along with educate and attract top AI talent to work on critical areas and enable government and key industry verticals to leverage AI and deliver public transformation contributing an additional 1 per cent to Telangana's GDP. He mentioned that the government has identified six key pillars to

strategise AI creation of datasets and developing a data exchange platform whose aim will be democratise seamless availability of data in the areas of mobility, healthcare, agriculture and e-governance that can be used in innovation, governance and successful business outcomes. He also informed that the State would be a nationally and globally recognised resource center for data sets and algorithms from and for India, with a mechanism to make these available for research and innovation along with creating India AI Data Trust.

The second pillar is making the required infrastructure available by setting up super computing infrastructure. "We plan to make available a high-performance AI computing (HPAIC) infrastructure to startups and research centres," he said.

The third is the availability of quality talent pool through various hackathons and certification programmes along with training 30,000 students in AI/ML/DS and Deep Learning in the next three years. The fourth pillar is governance, ethics and privacy. "We plan to develop a governance framework in key sectors and set up an advisory council on the ethical use of data and further develop guidelines that would help to organisations implement practices and measures in the model framework," he said.

Fifth pillar is research and innovation wherein the government would like to develop human capacity in advanced AI technologies aimed at solving India specific problems by attracting talented researchers across the world to work at our research centres.

"Government would also continue to support Govtech innovation by startups by procuring emerging technologies solutions from them. We have startups who are moving to Hyderabad because of the ecosystem present here and because the Telangana Govt is acting as the primary buyer or the first customer for emerging technologies, including AI," Rao said.

The final pillar is enabling AI adoption and community collaboration wherein the state is already leading the way globally for 'Government-as-a-buyer' for AI which is transforming public service delivery and governance with deep technology. Along with launching the logo and website marking 2020 as the Year of AI, the Minister also unveiled the Calendar of Year of AI marking several events around AI lined up for the year.

Telangana government launches blockchain accelerator programme for startups

Hyderabad: 05th February 2020

The State government, in partnership with Tech Mahindra, announced the launch of the T-Block Accelerator - the inaugural accelerator programme for the Telangana Blockchain District. IBC Media will run the accelerator. The accelerator will be working with 250 blockchain companies and is aimed at startups that have a strong blockchain use-case; thereby, accelerating the startup growth and contributing to the growth of the industry. It also aims to tap the low investment surge in blockchain in India.

Jayesh Ranjan, Principal Secretary of IT and Industries, said, "Telangana is committed to its vision of positioning Hyderabad as one of the leading blockchain cities in the world. We are happy to set in motion the first edition of the T-Block Accelerator program. This accelerator will be a torch-bearer to multiple future blockchain accelerators in the country and we are excited to partner with Tech Mahindra to identify and promote innovative blockchain-based solutions to solve real-world problems."

The registrations for the T-Block Accelerator will be open from February 3, 2020, with a one-week boot camp, followed by a four-month-long intensive training programme. Participating startups will receive mentorship and guidance from leading experts. The programme includes workshops, presentations, discussions, and assignments designed to impart the practical knowledge required to build relevant blockchain products with real-world applications.

Rajesh Dhuddu, Global Practice Leader, Blockchain, Tech Mahindra, said, "Our partnership with the Telangana government for the Blockchain District stems from our desire to build a world-class support infrastructure for blockchain startups."

No business can stay untouched from the AI revolution: KTR

Hyderabad : 22nd Jan 2020

IT and Industries Minister K T Rama Rao, underlining the

importance of Artificial Intelligence in all sectors in present day world, said AI must be factored into every policy or strategy, whether government, IT or non-IT industries. "We consider AI to be integral to all our work and hence in Telangana State, we have dedicated 2020 as the year of AI," he said. Participating in a panel discussion on 'Empowering AI Leadership' at the World Economic Forum in Davos, the Minister said: "No business can stay untouched from the AI revolution. It is expected to transform the global economy and early adopters will have first-mover advantage. Therefore, the Telangana government is setting a vision to accelerate AI readiness and develop a conducive ecosystem in the State."

Asserting that AI will add 40 per cent to the world's GDP by 2030, Rama Rao highlighted that Telangana declared 2020 as the "Year of AI" to capture the global AI opportunity in the coming decade. "This declaration has set in motion a bunch of coordinated initiatives with key strategic partners to achieve the State's vision to establish Hyderabad as among the top 25 global AI innovation hubs," he said. When asked about the state of AI deployment currently, the Minister said the State government had deployed AI-based systems for G2C Chatbots, identity authentication for citizen service delivery, commodity supply chain optimization, crowd counting, criminal tracking, and other law enforcement applications. He also pointed out that the Hyderabad City Police recently piloted an AI-enabled traffic management system, saving road time for citizens. "Effective use of citizen data helps us identify the key issues our citizens face, makes us design targeted programmes and provide better citizen services," he added.

Sharing his thoughts further, the Minister said: "As an international AI community, we need to brainstorm governance models to hold AI accountable. The Union government, in consultation with critical stakeholders, is already developing AI governance guidelines. I appreciate the WEF C4IR network's project on Public Sector AI Procurement guidelines."



Minister S. Iswaran, Ministry of Communications and Information of Singapore (MCI), Henrietta H. Fore, Executive Director, United Nations Children's Fund (UNICEF), Michael Salvino, President, and Chief Executive Officer, DXC Technology, Frans Cronje, Co-Founder, and Chief Executive Officer, DataProphet and Genevieve Bell, Distinguished Professor; Director, 3A Institute, Australian National University were the other panelists who shared their thoughts during the panel discussion.

UK initiative helping firms go global

Hyderabad : 3rd Feb 2020

The UK Global Entrepreneur Programme (GEP), a Department for International Trade initiative, is nurturing ties with the Indian entrepreneurs, who are looking to scale up their operations and go global, by making Britain their international base. Since the programme started in 2005, roughly over £1.5 billion worth of economic value has been created in the UK, which also takes into account new jobs created and increase in the valuation of companies that have set up base.

The programme aims to bring quality foreign direct investment (FDI) into the UK by attracting overseas entrepreneurs and their innovation-rich technology companies. The British Government's programme was established 15 years ago to help the world's best entrepreneurs go global with the help of a group of dealmakers (those who enable FDI deals come into the UK). Once in the UK, the programme supports these businesses to scale-up and internationalise, creating high-value jobs, contributing significantly to UK's productivity and economic growth.

Alpesh Patel, dealmaker, Global Entrepreneur Programme, UK Department for International Trade, said, "We primarily look at scale-up stage companies, which have outstanding potential and have the capability of becoming a billion dollar company, willing to locate their global headquarters and intellectual property into the UK, and go global. They continue to be in India but they can expand into the UK. The programme chose India as its first market as it felt the country has the greatest potential of having quality entrepreneurs. These companies represent a variety of sectors including niche areas such as cybersecurity and medical technology. They represent across geographies including Hyderabad." "Of all the countries from where companies have relocated their global headquarters into



the UK, India has always dominated. Each dealmaker brings 6-8 companies into the UK. There are dealmakers spread out across the globe," he added.

Intellectual property

The GEP does not look at the money that is coming into the UK but is keen that the intellectual property comes into the nation. Though the FDI could come into a British-Indian company operating in the UK, the money could actually come from the US. The programme constantly measures the valuation of the company from the time an Indian company has moved to the UK to the stage it scales up, if there is an increase, he explained.

Patel adds, "The programme was set up because the UK recognised that the wealth of a nation is directly proportionate to the intellectual property that it generates. It wants to improve the entrepreneurial gene pool and the talent in the UK. The idea is to attract the best and the brightest talent into the UK. This also spreads prosperity in India."

Govt engagement

The British government also engages with the Indian government counterparts as a part of several initiatives that include 'Go Global' that aims to provide advice and mentoring by the UK government to help governments in India to help businesses become global by improving ease of doing business (EoDB). Tech Hubs, an initiative that connects technology clusters in the UK with those in India so that they share knowledge, know-how, trade and invest with each other. Einstein Challenge is another innovation-centric technology initiative for social impact, jointly contributed by both the nations.

The GEP has been one such initiative that helps to

build bilateral ties between India and the UK, improve government-government know-how in terms of what policies will help, for instance what kind of accelerators and incubators are needed to nurture the entrepreneurial ecosystem.

Programme fitment

Indian companies that are in the scale-up stage with revenues of over \$100,000, having strong track record, capabilities, achievements, intellectual property, growth and the trajectory of business, are potential candidates if they have plans to go global and want to make the UK their international base.

“Not just profit-oriented companies, GEP also encourages social enterprises that are willing to solve the world’s problems, not just India’s problems. For instance, World Wide Generation, a company in the UK uses blockchain to make sure that the money from governments, NGOs, corporates doing social impact work goes where the money should go and check if the money actually reached the place where it was supposed to reach. This company not only is helping to track social fund movement but is also woman-founded (UK is keen to encourage women-founded companies). There are cleantech companies in India that are taking care of carbon capture. Another blockchain company in India tracks if clothes were manufactured legally and if there was any child labour employed,” he informed.

UK trade dept to help T-Hub startups

Hyderabad : 3rd Feb 2020

The UK Global Entrepreneur Programme (GEP), a Department for International Trade initiative, is building stronger ties and increasing its engagement with T-Hub to help startups to go global, making the UK their base for global operations.

Sharing the intent, Alpesh Patel, dealmaker, Global Entrepreneur Programme, UK Department for International Trade, said, “We keep talking to T-Hub so that we can identify companies that are looking to scale up. The early-stage companies are primarily looking for access to incubators, accelerators, low cost office space and legal & accountancy support. The late-stage startups are looking for venture capital support and access to customer base.”

The deal makers of the GEP provide advice and mentoring

to startups choosing to set up their base in the UK. Other benefits provided to these companies are export services & guarantee, and market support. UK’s Export Guarantee Scheme provides the cushion for companies looking to export, in terms of their working capital.

He added, “Incubators such as the T-Hub and the policy efforts of the State government to nurture entrepreneurs are helping companies to have global ambitions. So, companies here no more look at solving just India’s problems but global problems. If companies are keen on going global, they have to be in the UK. And the GEP is trying to enable that and make it happen.”

TS has potential to supply food to rest of the country: Agriculture Minister

Hyderabad : 1st Feb 2020

Telangana State has potential to supply quality and fresh farm produce to the country, said Agriculture Minister S Niranjan Reddy. He said State government had been implementing several novel schemes including ‘Rythu Bandhu’, ‘Rythu Bima’, free power supply and several other schemes for welfare of farmers and agriculture.

Addressing the Agriculture Department employees after releasing 2020 calendar at the office of Agriculture Commissioner here, Niranjan Reddy said Telangana was the only State with complete information pertaining to farmers which was enabling the State and also the Centre governments to implement Farm Investment Support Schemes such as ‘Rythu Bandhu’ and PM-KISAN respectively. He said credit for effective implementation of the State government’s novel schemes would go to employees of the agriculture department.

The Minister assured to take up issues pertaining to employees with the Chief Minister including repatriation of Telangana employees allocated to Andhra Pradesh to their native State of Telangana. He said the State would create wonders in agriculture sector with the support of its employees. He also promised to fill all vacant posts in the department shortly. Agriculture Commissioner Rahul Bojja, TNGOs president Karam Ravinder Reddy, general secretary Rajender, and other officials were present.

Telangana keen to create growth clusters: KTR

Hyderabad : 31st Jan 2020

Realising the need for developing new growth clusters, the Telangana government is working on decentralising the real estate development. The Government, as the western part of the city is getting saturated, has announced a Look East Policy to promote growth in the eastern part of the city. However, keeping view of the growing traffic congestion, it has tweaked it to look anywhere except west. Three big companies have applied to develop about 20 lakh sq ft towards Uppal-Nagole in the eastern part of the city. In the south, an electronics manufacturing cluster will be announced in February. In the northern side of the city toward Medchal, an IT Park is likely to come by near Kompally-Petbasheerabagh, said Industries, IT and Municipal Administration Minister KT Rama Rao speaking at the inauguration of Credai Hyderabad Property Show.

On strengthening the road infrastructure, he said, under the Comprehensive Road Maintenance Programme (CRMP), the upkeep of about 710 km roads is given to seven private agencies. The outlay for this programme is Rs 2,000 crore. This apart, missing road links and connecting links are also being taken up with another Rs 250 crore. The results of these will be visible in three to four months. He said Bengaluru has been listed as having worst traffic and effort should be to ensure that Hyderabad never figures in such a list.

Skill academy

The Minister asked the real estate lobby body Credai to set up skill training academy on the lines of National Academy of Construction. The focus should be on training the local people as this will reduce migration to other cities.

Currently, most of the specific trades like carpentry and others, are handled by people coming from other States including Bihar, Rajasthan, Chhattisgarh and Andhra Pradesh. He asked the industry to come up with a plan for this and Government will support this programme, he said. The State Government has addressed many issues of the real estate sector and also announced incentives. This is mainly due to the large employment generation potential the sector has. The growth momentum will continue for the next 20 years, he said adding that Hyderabad has edged Bengaluru twice in terms of office space absorption.

T-Hub 2

Startup engine T-Hub will get bigger soon. T-Hub 2.0 is being readied and this can host about 4,000 startups. This will be

the biggest facility in India. The building, which will mimic a spaceship, will be completed by June or July this year.

Water

The real estate body asked the Government to provide water to the construction sector as it does to other industries. The water availability has increased due to Mission Bhagiratha and Kaleswaram projects. The real estate industry will be a paid customer. This would reduce the burden on ground water (bore wells). Replying to this, the Minister said Hyderabad has the distinction of treating nearly 41 per cent of the sewage water. This compares better than Mumbai which treats 25 per cent of the sewage water and Bengaluru, which does 30 per cent. More sewerage plants will be set up in a public private partnership mode to treat more water. This secondary treated water can be used for construction.

Lift servicing

The Government through the Department of Fire Services will provide training in fire and elevator safety. He asked the builder community to partner with Government in this initiative

Parking policy

The Government is thinking of a new parking policy. Under this, people having open plots can use them to create stack parking facilities. On the otherhand, the developers can go for additional floors and convert them for parking by the neighbourhood.

Setbacks

He also said the developers have to follow the setback and cellar norms as mandated. Deviations would result in loss of property or lives. The builders should make use of self-regulation allowed now.

He also asked the builders to use new technologies so that the dust emanating at the construction sites is reduced. This will ensure that other people are put to discomfort.

Aesthetics

The minister asked the developers to pay special attention to the skycap. He urged the developers to come up with new designs rather than the regular box type of buildings.

KCR visit

Chief Minister K Chandrashekar Rao will visit the Middle East next month. He will also address the diaspora including those working in the construction segment to look up at the increasing opportunities back home.

The Key Highlights of Union Budget 2020-21

- Aspirational India - better standards of living with access to health, education and better jobs for all sections of the society
- Economic Development for all - “Sabka Saath, Sabka Vikas, Sabka Vishwas”
- Caring Society - both humane and compassionate; Antyodaya as an article of faith.
- Krishi Udaan to be launched by the Ministry of Civil Aviation for both international and national routes.
- One-Product One-District introduced in order to improve better marketing and export in the Horticulture sector.

Three broad themes are held together by:

- Corruption free, policy-driven Good Governance.
- Clean and sound financial sector.
- Ease of Living underlined by the three themes of Union Budget 2020-21.
- Three components of Aspirational India
- Agriculture, Irrigation, and Rural Development
- Wellness, Water, and Sanitation
- Education and Skills

Sixteen Action Points for Agriculture, Irrigation and Rural Development

- Rs 2.83 lakh crore (US\$ 40.06 billion) to be allocated for the following 16 Action Points:
- Rs 1.60 lakh crore (US\$ 22.64 billion) for Agriculture, Irrigation & allied activities.
- Rs 1.23 lakh crore (US\$ 17.40 billion) for Rural development & Panchayati Raj.

Agriculture credit :

- Rs 15 lakh crore (US\$ 212.31 billion) target set for the year 2020-21.
- PM-KISAN beneficiaries to be covered under the KCC scheme.
- NABARD Re-finance Scheme to be further expanded.

Blue Economy

- Rs 1 lakh crore (US\$ 14.15 billion) fisheries exports to be achieved by 2024-25.
- 200 lakh tonnes fish production targeted by 2022-23.
- 3477 Sagar Mitras and 500 Fish Farmer Producer Organisations to involve youth in fisheries extension.
- Growing of algae, seaweed and cage culture to be promoted.
- Kisan Rail to be setup by Indian Railways through PPP.

PM-KUSUM to be expanded:

- 20 lakh farmers to be provided for setting up stand-alone solar pumps.
- Another 15 lakh farmers to be helped to solarise their grid-connected pump sets.
- Scheme to enable farmers to set up solar power generation capacity on their fallow/barren lands and to sell it to the grid.

Livestock :

- Doubling of milk processing capacity to 108 million MT from 53.5 million MT by 2025.
- Artificial insemination to be increased to 70 per cent from the present 30 per cent.
- MNREGS to be dovetailed to develop fodder farms.
- Foot and Mouth Disease, Brucellosis in cattle and Peste Des Petits ruminants (PPR) in sheep and goat to be eliminated by 2025.
- Wellness, Water and Sanitation
- Rs 69,000 crore (US\$ 9.76 billion) allocated for overall Healthcare sector.
- Rs 6,400 crore (US\$ 905.87 million) (out of Rs 69,000 crore[(US\$ 9.76 billion)]) for PM Jan Arogya Yojana (PMJAY)
- Jan Aushadhi Kendra Scheme to offer 2000 medicines and 300 surgicals in all districts by 2024.
- TB Harega Desh Jeetega campaign launched - commitment to end Tuberculosis by 2025.
- Rs 3.60 lakh crore (US\$ 50.95 billion) approved for Jal Jeevan Mission
- Rs 12,300 crore (US\$ 1.74 billion) allocation for Swachh Bharat Mission in 2020-21

Education and Skills

- Rs 99,300 crore (US\$ 14.05 billion) for education sector and Rs 3,000 crore (US\$ 424.62 million) for skill development in 2020-21.

- National Police University and National Forensic Science University proposed for policing science, forensic science, and cyber-forensics.
- Degree level full-fledged online education program by Top-100 institutions in the National Institutional Ranking Framework.
- 150 higher educational institutions to start apprenticeship embedded degree/diploma courses by March 2021.
- Ind-SAT proposed for Asian and African countries as a part of Study in India program.
- A National Logistics Policy to be released soon that will create a single window e-logistics market
- Rs 1.7 lakh crore (US\$ 24.06 billion) proposed for transport infrastructure in 2020-21.

Highways

- Proposed to monetise at least 12 lots of highway bundles of over 6,000 Km before 2024.

Indian Railways

Five measures:

- Large solar power capacity to be set up alongside rail tracks, on land owned by railways.
- Four station re-development projects and operation of 150 passenger trains through PPP.
- More Tejas type trains to connect iconic tourist destinations.
- High speed train between Mumbai and Ahmedabad to be actively pursued.
- 148 km long Bengaluru Suburban transport project at a cost of Rs 18,600 crore (US\$ 2.63 billion), to have fares on metro model. Central Government to provide 20 per cent of equity and facilitate external assistance up to 60 per cent of the project cost.

Economic Development

Industry, Commerce and Investment

- Rs 27,300 crore (US\$ 3.86 billion) allocated for 2020-21 for development and promotion of Industry and Commerce.
- Five new smart cities proposed to be developed.
- National Technical Textiles Mission to be set up:
- With four-year implementation period from 2020-21 to 2023-24.
- At an estimated outlay of Rs 1,480 crore (US\$ 209.48 million).
- To position India as a global leader in Technical Textiles.
- New scheme NIRVIK to be launched to achieve higher export credit disbursement, which provides for:
 - Higher insurance coverage.
 - Reduction in premium for small exporters.
 - Simplified procedure for claim settlements.
- Turnover of Government e-Marketplace (GeM) proposed to be taken to Rs 3 lakh crore (US\$ 42.46 billion).
- All Ministries to issue quality standard orders as per PM's vision of "Zero Defect-Zero Effect" manufacturing.

Infrastructure

- Rs 100 lakh crore (US\$ 1.41 trillion) to be invested on infrastructure over the next 5 years

National Infrastructure Pipeline:

- Rs 103 lakh crore (US\$ 1.45 trillion) worth projects; launched on 31st December 2019.
- More than 6,500 projects across sectors, to be classified as per their size and stage of development.

Ports & Waterways

- Economic activity along riverbanks to be energised as per Prime Minister's Arth Ganga concept.

Airports

- 100 more airports to be developed by 2024 to support Udaan scheme.
- Air fleet number expected to go up from present 600 to 1200 during this time.

Power

- Rs 22,000 crore (US\$ 3.11 billion) proposed for power and renewable energy sector in 2020-21.
- Expansion of national gas grid from the present 16200 km to 27000 km proposed.

New Economy

To take advantage of new technologies:

- Policy to enable private sector to build Data Centre parks throughout the country to be launched soon.
- Fibre to the Home (FTTH) connections through Bharatnet to link 100,000 gram panchayats this year.

- Rs 6,000 crore (US\$ 849.25 million) proposed for Bharatnet programme in 2020-21.
- Rs 8,000 crore (US\$ 1.13 billion) proposed over five years for National Mission on Quantum Technologies and Applications.
- An independent, professional and specialist National Recruitment Agency (NRA) for conducting a computer-based online Common Eligibility Test for recruitment.
- A test-centre in every district, particularly in the Aspirational Districts.

Caring Society

- Allocation of Rs 35,600 crore (US\$ 5.03 billion) for nutrition-related programmes proposed for the FY2020-21.
- Rs 28,600 crore (US\$ 4.04 billion) proposed for women specific programs.
- Financial support for wider acceptance of technologies, identified by Ministry of Housing and Urban Affairs to ensure no manual cleaning of sewer systems or septic tanks, to be provided.
- Rs 85,000 crore (US\$ 12.03 billion) proposed for 2020-21 for welfare of Scheduled Castes and Other Backward Classes
- Rs 53,700 crore (US\$ 7.60 billion) provided to further development and welfare of Scheduled Tribes.
- Enhanced allocation of Rs 9,500 crore (US\$ 1.34 billion) provided for 2020-21 for senior citizens and Divyang.

Culture & Tourism

- Allocation of Rs 2,500 crore (US\$ 353.85 million) for 2020-21 for tourism promotion.
- Rs 3,150 crore (US\$ 445.85 million) proposed for Ministry of Culture for 2020-21.
- An Indian Institute of Heritage and Conservation under Ministry of Culture proposed, with the status of a deemed University.

Environment & Climate Change

- Allocation for this purpose to be Rs 4,400 crore (US\$ 622.78 million) for 2020-21.
- PM launched Coalition for Disaster Resilient Infrastructure (CDRI) with Secretariat in Delhi. Second such international initiative after International Solar Alliance.

Governance

- Clean, corruption-free, policy driven, well in intent and most importantly trusting in faith.
- Major reforms in recruitment to Non-Gazetted posts in Government and Public sector banks:

New National Policy on Official Statistics to:

- Promote use of latest technologies including AI.
- Lay down a road-map towards modernised data collection, integrated information portal and timely dissemination of information.
- A sum of Rs 100 crore (US\$ 14.15 million) allocated to begin the preparations for G20 presidency to be hosted in India in the year 2022.

Development of North East region:

- Improved flow of funds using online portal by the Government.
- Greater access to financial assistance of Multilateral and Bilateral funding agencies.

Development of Union Territories of J&K and Ladakh:

- An amount of Rs 30,757 crore (US\$ 4.35 billion) provided for the financial year 2020-21.
- The Union Territory of Ladakh has been provided with Rs 5,958 crore (US\$ 843.31 million).

Fiscal Management

For FY 2019-20:

- Revised Estimates of Expenditure: at Rs 26.99 lakh crore (US\$ 382.02 billion).
- Revised Estimates of Receipts: estimated at Rs 19.32 lakh crore (US\$ 273.46 billion).

For year 2020-21:

- Nominal growth of GDP estimated at 10 per cent.
- Receipts: estimated at Rs 22.46 lakh crore (US\$ 317.90 billion)
- Expenditure: at Rs 30.42 lakh crore (US\$ 430.57 billion)

Direct Tax

- Personal Tax: around 70 of the existing exemptions and deductions out of more than 100 to be removed in the new simplified regime.
- New and simplified personal income tax regime proposed:

| Taxable Income Slab (Rs) | Existing tax rates | New tax rates |
|--------------------------|--------------------|---------------|
| 0-2.5 Lakh | Exempt | Exempt |
| 2.5-5 Lakh | 5 | 5 |
| 5-7.5 Lakh | 20 | 10 |
| 7.5-10 Lakh | 20 | 15 |
| 10-12.5 Lakh | 30 | 20 |
| 12.5-15 Lakh | 30 | 25 |
| Above 15 Lakh | 30 | 30 |

- New regime to entail estimated revenue forgone of Rs 40,000 crore (US\$ 5.66 billion) per year.
- Corporate Tax: Tax rate of 15 per cent extended to new electricity generation companies.

Dividend Distribution Tax (DDT):

- DDT removed making India a more attractive investment destination.
- Deduction to be allowed for dividend received by holding company from its subsidiary.
- Rs 25,000 crore (US\$ 3.53 billion) estimated annual revenue forgone.

Start-ups:

- Start-ups with turnover up to Rs 100 crore (US\$ 14.15 million) to enjoy 100 per cent deduction for three consecutive assessment years out of 10 years

MSMEs to boost less-cash economy:

- Turnover threshold for audit increased to Rs 5 crore (US\$ 0.70 million) from Rs 1 crore (US\$ 0.14 million) for businesses carrying out less than five per cent business transactions in cash.

Tax concession for foreign investments:

- 100 per cent tax exemption to the interest, dividend and capital gains income on investment made in infrastructure and priority sectors before 31st March 2024 with a minimum lock-in period of three years by the Sovereign Wealth Fund of foreign governments.

Affordable housing:

- Additional deduction up to Rs 1.5 lakh (US\$ 2,123) for interest paid on loans taken for an affordable house extended till 31st March 2021.
- Date of approval of affordable housing projects for availing tax holiday on profits earned by developers extended till 31st March 2021.

Tax Facilitation Measures

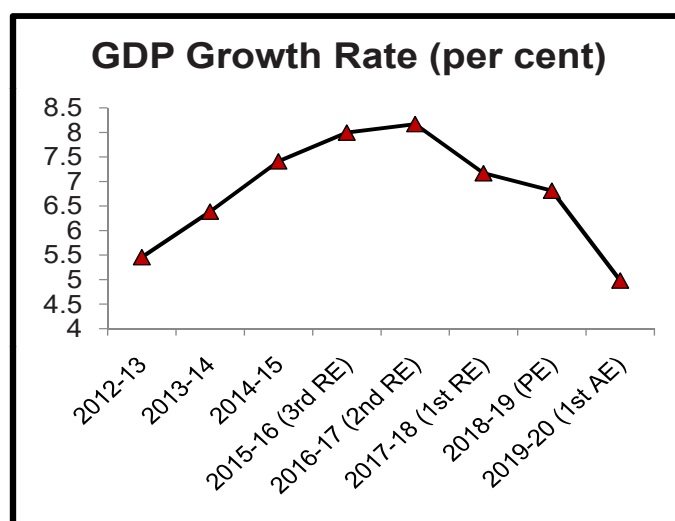
- Instant PAN to be allotted online through Aadhaar.
- 'Vivad Se Vishwas' scheme, with a deadline of 30th June 2020, to reduce litigations in direct taxes.
- Faceless appeals to be enabled by amending the Income Tax Act.
- Future Aim for sustaining India's unique global leadership, driven by Digital Revolution
- Seamless delivery of services through Digital Governance.
- Improvement in physical quality of life through National Infrastructure Pipeline.
- Risk mitigation through Disaster Resilience.
- Social security through Pension and Insurance penetration.
- Indian GDP Growth Rate (%) at constant (2011-12) Prices during last six years

Indian GDP Growth Rate (%) at constant (2011-12) Prices during last six years

| Year | GDP Growth Rate (In %) |
|---------------|------------------------|
| 2014-15 | 7.4 |
| 2015-16 | 8.0 |
| 2016-17 | 8.3 |
| 2017-18 | 7.0 |
| 2018-19(FRE) | 6.1 |
| 2019-20 (FAE) | 5.0 |

FRE-First Revised Estimates, FAE-First Advance Estimates

Source: www.indiabudget.gov.in



Sectorwise GVA growth at 2011-12 basic prices

| | 2017-18 1st RE | 2018-19 PE | 2019-20 1AE |
|--|-------------------|---------------|----------------|
| Agriculture, forestry & fishing | 5.0 | 2.9 | 2.8 |
| Industry | 5.9 | 6.9 | 2.5 |
| Mining & quarrying | 5.1 | 1.3 | 1.5 |
| Manufacturing | 5.9 | 6.9 | 2.0 |
| Electricity, gas, water supply & other utility services | 8.6 | 7.0 | 5.4 |
| Construction | 5.6 | 8.7 | 3.2 |
| Services | 8.1 | 7.5 | 6.9 |
| Trade, Hotel, Transport, Storage, communication and services related to broadcasting | 7.8 | 6.9 | 5.9 |
| Financial, real estate & professional services | 6.2 | 7.4 | 6.4 |
| Public Administration, defence and other services | 11.9 | 8.6 | 9.1 |
| GVA at basic prices | 6.9 | 6.6 | 4.9 |

Source: NSO, RE: Revised Estimate, AE: Advance Estimate

Budget at a Glance

The Growth of GDP has declined largely due to low growth in manufacturing and Construction Sector

(In ₹ crores)

| | 2018-2019 Actuals | 2019-2020 Budget Estimates | 2019-2020 Revised Estimates | 2020-2021 Budget Estimates |
|--|----------------------|----------------------------------|-----------------------------------|----------------------------------|
| 1. Revenue Receipts | 1552916 | 1962761 | 1850100 | 2020926 |
| 2. Tax Revenue (Net to Centre) | 1317211 | 1649582 | 1504587 | 1635909 |
| 3. Non Tax Revenue | 235705 | 313179 | 345513 | 385017 |
| 4. Capital Receipts ¹ | 762197 | 823588 | 848450 | 1021304 |
| 5. Recovery of Loans | 18052 | 14828 | 16604 | 14967 |
| 6. Other Receipts | 94727 | 105000 | 65000 | 210000 |
| 7. Borrowings and Other Liabilities ² | 649418 | 703761 | 766846 | 796337 |
| 8. Total Receipts (1+4) | 2315113 | 2786349 | 2698551 | 3042230 |
| 9. Total Expenditure (10+13) | 2315113 | 2786349 | 2698552 | 3042230 |
| 10. On Revenue Account of which | 2007399 | 2447780 | 2349645 | 2630145 |

| | | | | | |
|-----|---|--------------|--------------|--------------|--------------|
| 11. | Interest Payments | 582648 | 660471 | 625105 | 708203 |
| 12. | Grants in Aid for creation of capital assests | 191781 | 207333 | 191737 | 206500 |
| 13. | On Capital Account | 307714 | 338569 | 348907 | 412085 |
| 14. | Revenue Deficit (10-1) | 454483 (2.4) | 485019 (2.3) | 499545 (2.4) | 609219 (2.7) |
| 15. | Effective Revenue Deficit (14-12) | 262702 (1.4) | 277686 (1.3) | 307808 (1.5) | 402719 (1.8) |
| 16. | Fiscal Deficit [9-(1+5+6)] | 649418 (3.4) | 703760 (3.3) | 766848 (3.8) | 796337 (3.5) |
| 17. | Primary Deficit (16-11) | 66770 (0.4) | 43289 (0.2) | 141743 (0.7) | 88134 (0.4) |

¹ Excluding receipts under Market Stabilisation Scheme

² Includes drawdown of cash Balance

Notes: 0(i) GDP for BE 2020-2021 has been projected at ₹ 22489420 crore assuming 10.0 % growth over the estimated GDP of ₹ 20442233 crore for 2019-2020 (RE). (ii) Individual items in this document may not sum up to the totals due to rounding off

(iii) Figures in parenthesis are as a percentage of GDP

Source: www.indiabudget.gov.in

Receipts

(In ₹ crores)

| | 2018-2019 Actuals | 2019-2020 Budget Estimates | 2019-2020 Revised Estimates | 2020-2021 Budget Estimates |
|--|----------------------|-------------------------------|--------------------------------|-------------------------------|
| REVENUE RECEIPTS | | | | |
| 1. Tax Revenue | | | | |
| Gross Tax Revenue | 2080465 | 2461195 | 2163423 | 2423020 |
| a. Corporation Tax | 663572 | 766000 | 610500 | 681000 |
| b. Taxes on Income | 473003 | 569000 | 559500 | 638000 |
| c. Wealth Tax | 41 | .. | .. | .. |
| d. Customs | 117813 | 155904 | 125000 | 138000 |
| e. Union Excise Duties | 231982 | 300000 | 248012 | 267000 |
| f. Service Tax | 6904 | .. | 1200 | 1020 |
| g. GST | 581560 | 663343 | 612327 | 690500 |
| - CGST | 457535 | 526000 | 514000 | 580000 |
| - IGST | 28945 | 28000 | .. | .. |
| - GST Compensation Cess | 95081 | 109343 | 98327 | 110500 |
| h. Taxes of Union Territories | 5592 | 6948 | 6884 | 7500 |
| Less - NCCD transferred to the NCCF/NDRF | 1800 | 2480 | 2790 | 2930 |
| Less - State's share | 761455 | 809133 | 656046 | 784181 |
| 1a Centre's Net Tax Revenue | 1317211 | 1649582 | 1504587 | 1635909 |
| 2. Non-Tax Revenue | 235705 | 313179 | 345513 | 385017 |
| Interest receipts | 12145 | 13711 | 11027 | 11042 |
| Dividends and Profits | 113420 | 163529 | 199893 | 155395 |
| External Grants | 1063 | 1006 | 974 | 812 |
| Other Non Tax Revenue | 107187 | 132784 | 131525 | 215465 |
| Receipts of Union Territories | 1890 | 2149 | 2094 | 2303 |
| Total- Revenue Receipts (1a + 2) | 1552916 | 1962761 | 1850100 | 2020926 |
| 3. CAPITAL RECEIPTS | | | | |
| A. Non-debt Receipts | 112779 | 119828 | 81604 | 224967 |

| | | | | |
|---------------------------------------|---------|---------|---------|---------|
| (i) Recoveries of loans and advances@ | 18052 | 14828 | 16604 | 14967 |
| (ii) Disinvestment Receipts | 94727 | 105000 | 65000 | 210000 |
| B. Debt Receipts* | 650739 | 652702 | 766846 | 849340 |
| Total Capital Receipts (A+B) | 763518 | 772529 | 848450 | 1074306 |
| 4. Draw-Down of Cash Balance | -1321 | 51059 | | -53003 |
| Total Receipts (1a+2+3) | 2316434 | 2735290 | 2698551 | 3095233 |
| Receipts under MSS (Net) | .. | .. | .. | .. |

Expenditure of Major Items

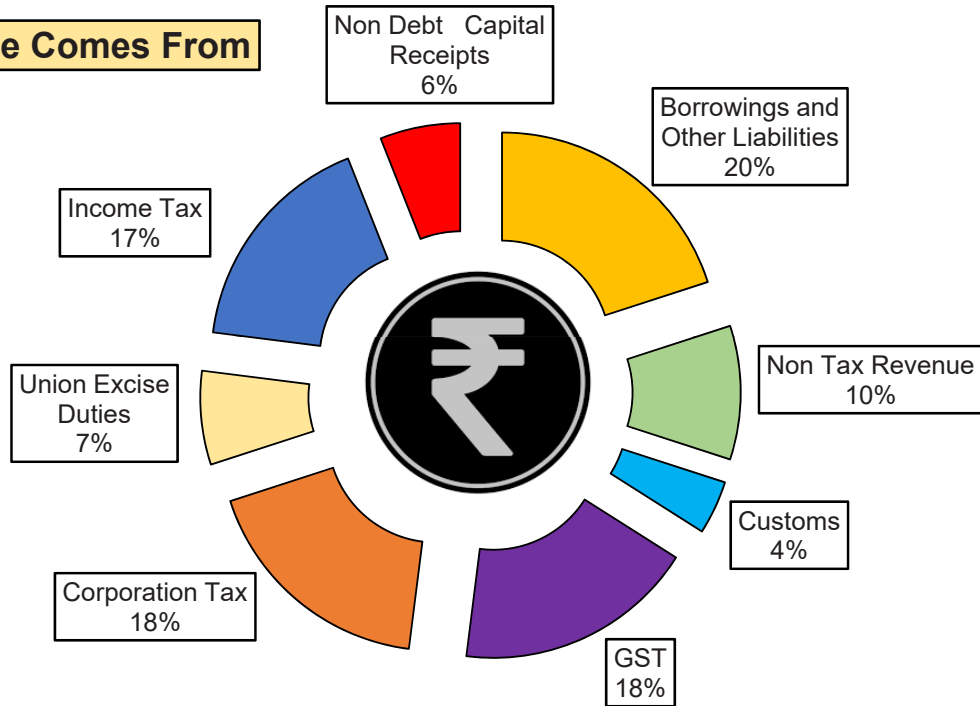
(In ₹ crores)

| | 2018-2019 Actuals | 2019-2020 Budget Estimates | 2019-2020 Revised Estimates | 2020-2021 Budget Estimates |
|---|----------------------|----------------------------------|-----------------------------------|----------------------------------|
| Pension | 160211 | 174300 | 184147 | 210682 |
| Defence | 290802 | 305296 | 316296 | 323053 |
| Subsidy - Fertiliser | 70605 | 79996 | 79998 | 71309 |
| Food | 101327 | 184220 | 108688 | 115570 |
| Petroleum | 24837 | 37478 | 38569 | 40915 |
| Agriculture and Allied Activities | 63259 | 151518 | 120835 | 154775 |
| Commerce and Industry | 27851 | 27043 | 28608 | 27227 |
| Development of North East | 1961 | 3000 | 2670 | 3049 |
| Education | 80345 | 94854 | 94854 | 99312 |
| Energy | 45461 | 44638 | 42458 | 42725 |
| External Affairs | 15514 | 17885 | 17372 | 17347 |
| Finance | 14920 | 20121 | 24880 | 41829 |
| Health | 54477 | 64999 | 63830 | 67484 |
| Home Affairs | 98116 | 103927 | 124083 | 114387 |
| Interest | 582648 | 660471 | 625105 | 708203 |
| IT and Telecom | 14868 | 21783 | 16000 | 59349 |
| Others | 74497 | 76665 | 76782 | 84256 |
| Planning and Statistics | 5322 | 5814 | 5811 | 6094 |
| Rural Development | 132803 | 140762 | 143409 | 144817 |
| Scientific Departments | 24755 | 27431 | 27694 | 30023 |
| Social Welfare | 43664 | 50850 | 48210 | 53876 |
| Tax Administration of which Transfer to | 69416 | 117285 | 137307 | 152962 |
| GST Compensation Fund | | 101200 | 121200 | 135368 |
| Transfer to States | 119144 | 155447 | 155447 | 200447 |
| Transport | 143626 | 157437 | 158207 | 169637 |
| Union Territories | 14073 | 15098 | 15026 | 52864 |
| Urban Development | 40612 | 48032 | 42267 | 50040 |
| Grand Total | 2315113 | 2786349 | 2698552 | 3042230 |

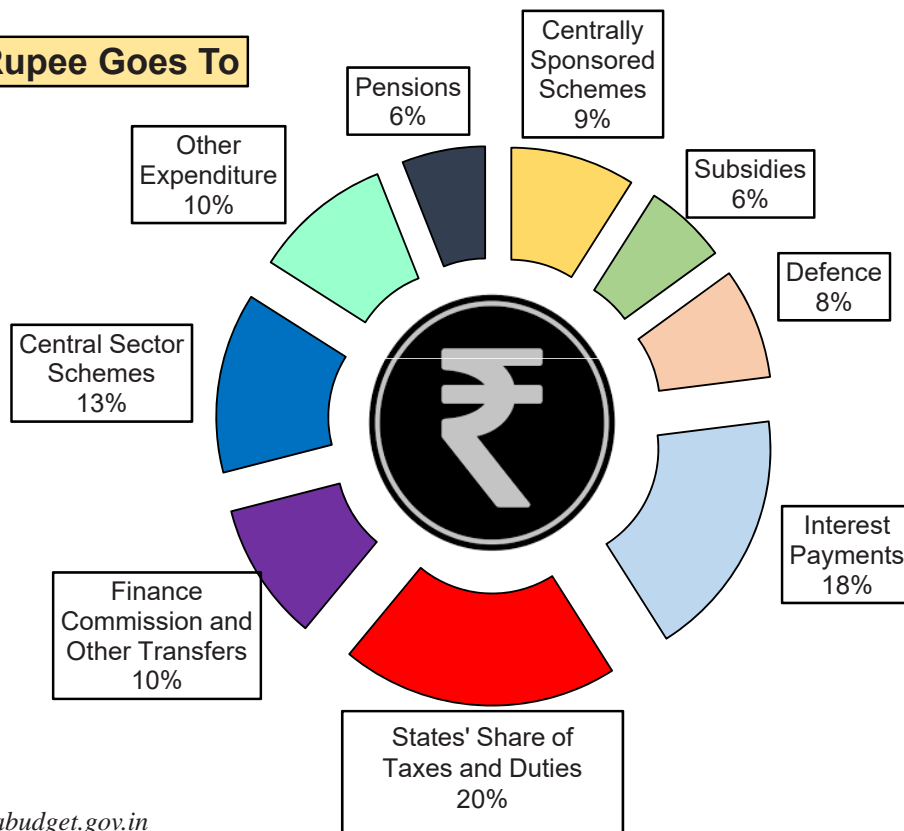
Source: www.indiabudget.gov.in

Budget at a Glance

Rupee Comes From



Rupee Goes To



Source: www.indiabudget.gov.in

STATEMENT SHOWING STATE-WISE DISTRIBUTION OF NET PROCEEDS OF UNION TAXES AND DUTIES FOR BE 2020-21

(In ₹ crore)

| Sl. No. | State | Share (per cent)* | Corporation Tax (0020) | Income Tax@ (0021) | Wealth Tax (0032) | Central GST (0005) | Customs (0037) | Union Excise Duty (0038) | Service Tax (0044) | Grand Total (4 to 10) |
|---------|-------------------|-------------------|------------------------|--------------------|-------------------|--------------------|-----------------|--------------------------|--------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | Andhra Pradesh | 4.111 | 9916.22 | 9220.31 | -0.33 | 9757.50 | 2012.13 | 1314.66 | 17.19 | 32237.68 |
| 2 | Arunachal Pradesh | 1.760 | 4245.33 | 3947.40 | -0.14 | 4177.38 | 861.43 | 562.83 | 7.36 | 13801.59 |
| 3 | Assam | 3.131 | 7552.34 | 7022.33 | -0.25 | 7431.46 | 1532.47 | 1001.26 | 13.09 | 24552.70 |
| 4 | Bihar | 10.061 | 24268.32 | 22565.20 | -0.80 | 23879.88 | 4924.35 | 3217.41 | 42.08 | 78896.44 |
| 5 | Chhattisgarh | 3.418 | 8244.62 | 7666.02 | -0.27 | 8112.66 | 1672.94 | 1093.04 | 14.29 | 26803.30 |
| 6 | Goa | 0.386 | 931.08 | 865.74 | -0.03 | 916.17 | 188.93 | 123.44 | 1.61 | 3026.94 |
| 7 | Gujarat | 3.398 | 8196.38 | 7621.16 | -0.27 | 8065.18 | 1663.15 | 1086.65 | 14.21 | 26646.46 |
| 8 | Haryana | 1.082 | 2609.91 | 2426.75 | -0.09 | 2568.14 | 529.58 | 346.01 | 4.52 | 8484.82 |
| 9 | Himachal Pradesh | 0.799 | 1927.28 | 1792.03 | -0.06 | 1896.43 | 391.07 | 255.51 | 3.34 | 6265.60 |
| 10 | Jharkhand | 3.313 | 7991.35 | 7430.52 | -0.26 | 7863.44 | 1621.55 | 1059.46 | 13.85 | 25979.91 |
| 11 | Karnataka | 3.646 | 8794.58 | 8177.39 | -0.29 | 8653.82 | 1784.53 | 1165.95 | 15.25 | 28591.23 |
| 12 | Kerala | 1.943 | 4686.75 | 4357.83 | -0.15 | 4611.73 | 951.00 | 621.35 | 8.13 | 15236.64 |
| 13 | Madhya Pradesh | 7.886 | 19021.97 | 17687.02 | -0.62 | 18717.50 | 3859.80 | 2521.86 | 32.98 | 61840.51 |
| 14 | Maharashtra | 6.135 | 14798.35 | 13759.81 | -0.49 | 14561.48 | 3002.77 | 1961.91 | 25.66 | 48109.49 |
| 15 | Manipur | 0.718 | 1731.90 | 1610.36 | -0.06 | 1704.18 | 351.43 | 229.61 | 3.00 | 5630.42 |
| 16 | Meghalaya | 0.765 | 1845.27 | 1715.77 | -0.06 | 1815.73 | 374.43 | 244.64 | 3.20 | 5998.98 |
| 17 | Mizoram | 0.506 | 1220.53 | 1134.88 | -0.04 | 1201.00 | 247.66 | 161.81 | 2.12 | 3967.96 |
| 18 | Nagaland | 0.573 | 1382.14 | 1285.15 | -0.04 | 1360.02 | 280.46 | 183.24 | 2.40 | 4493.37 |
| 19 | Odisha | 4.629 | 11165.70 | 10382.10 | -0.37 | 10986.98 | 2265.66 | 1480.31 | 19.36 | 36299.74 |
| 20 | Punjab | 1.788 | 4312.87 | 4010.20 | -0.14 | 4243.83 | 875.14 | 571.78 | 7.48 | 14021.16 |
| 21 | Rajasthan | 5.979 | 14422.06 | 13409.93 | -0.47 | 14191.21 | 2926.42 | 1912.02 | 25.00 | 46886.17 |
| 22 | Sikkim | 0.388 | 935.90 | 870.22 | -0.03 | 920.92 | 189.91 | 124.08 | 1.62 | 3042.62 |
| 23 | Tamil Nadu | 4.189 | 10104.36 | 9395.25 | -0.33 | 9942.63 | 2050.31 | 1339.60 | 17.52 | 32849.34 |
| 24 | Telangana | 2.133 | 5145.05 | 4783.97 | -0.17 | 5062.70 | 1044.00 | 682.11 | 8.92 | 16726.58 |
| 25 | Tripura | 0.709 | 1710.19 | 1590.17 | -0.06 | 1682.82 | 347.02 | 226.73 | 2.97 | 5559.84 |
| 26 | Uttar Pradesh | 17.931 | 43251.70 | 40216.34 | -1.42 | 42559.40 | 8776.32 | 5734.15 | 74.99 | 140611.48 |
| 27 | Uttarakhand | 1.104 | 2662.98 | 2476.09 | -0.09 | 2620.35 | 540.35 | 353.05 | 4.62 | 8657.35 |
| 28 | West Bengal | 7.519 | 18136.72 | 16863.90 | -0.60 | 17846.42 | 3680.17 | 2404.50 | 31.44 | 58962.55 |
| | TOTAL | 100.00 | 241211.85 | 224283.84 | -7.93 | 237350.96 | 48944.98 | 31978.97 | 418.20 | 784180.87 |

* As per accepted recommendations of the Fifteenth Finance Commission, the States' share has been fixed at 41% of the net proceeds of shareable Central Taxes.
 @ Income Tax includes Securities Transaction Tax (STT).

Source: www.indiabudget.gov.in

Expenditure of major items

In ₹ Crore

Rs. 50040



Ministry of Housing and Urban Affairs

Rs. 67112



Ministry of Health and Family Welfare

Rs. 72216



Ministry of Railways

Rs. 91823



Ministry of Road Transport and Highways

Rs. 99312



Ministry of Human Resource Development

Rs. 122398



Ministry of Rural Development

Rs. 124535



Ministry of Consumer Affairs, Food and Public Distribution

Rs. 142762



Ministry of Agriculture and Farmers' Welfare

Rs. 167250



Ministry of Home Affairs

Rs. 471378



Ministry of Defence

GOLKONDA BRAND PRODUCTS

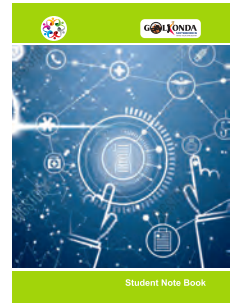
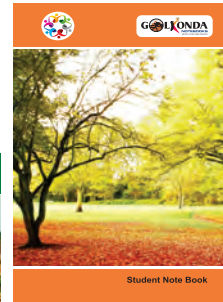
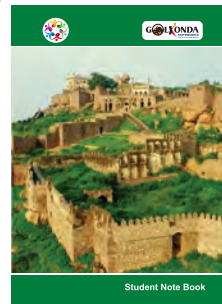
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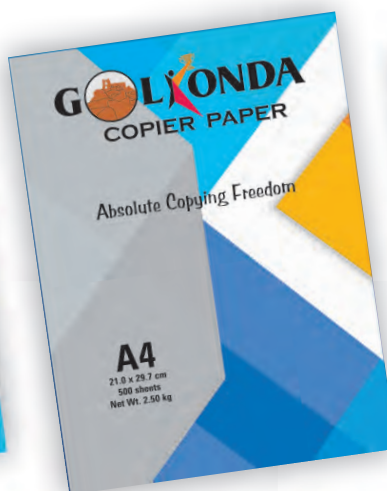
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