

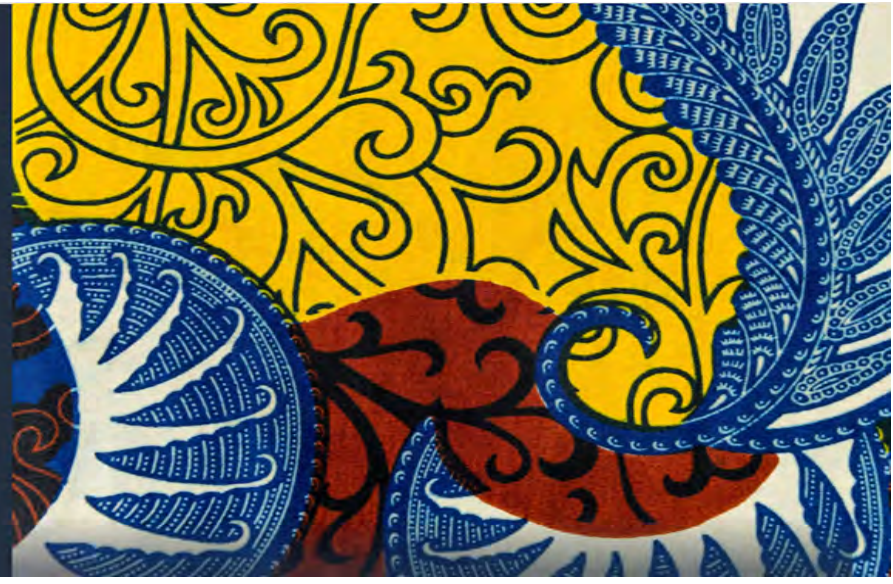


Indian Embassy Vienna

सत्यमेव जयते

# INDIA NEWSLETTER

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Focus Sector

## INFRASTRUCTURE

Find Inside:



Special column- Spices  
Board of India



State Economic Profile

Interaction with our Hon'ble  
Ambassador



Tourism



14-15  
SEPTEMBER  
NEW DELHI



Exhibitions

## News Flash

**1** Eight of top-10 most valued firms add over US\$ 19.28 billion in market capitalisation; Reliance Industries tops chart. The BSE benchmark Sensex gained 882.40 points or 1.74%, on a weekly basis. Reliance Industries witnessed market valuation increasing by US\$ 8.23 billion to US\$ 183.49 billion.

**2** According to a new report, last mile delivery market in India is expected to reach US\$ 6-7 billion by 2024, following a parallel trend with markets in the US and China where the penetration has attained >10%. According to a report by RedSeer, a Bengaluru-based market research company, last mile delivery in India comprises retail, e-commerce, FMCG, and other categories. Among segment, FMCG represents the highest share in the market followed by e-commerce.

**3** According to Jefferies, equity markets in India are experiencing good growth and the equity supply is expected to reach Rs. 2-3 trillion (US\$ 30-40 billion) in FY22 with 40% of the supply raised through IPOs

(initial public offers). The institutional flows would drive corporate equity supply and is expected to attract new investors.

**4** RDSO (Research Design & Standards Organisation) of Indian Railways became the first institution to be declared Standard Developing Organization (SDO) under "One Nation One Standard" mission on BIS (Bureau of Indian Standards).

**5** India's merchandise exports in May 2021 was US \$ 32.21 billion, an increase of 67.39% over US\$ 19.24 billion in May 2020 and an increase of 7.93% over US\$ 29.85 billion in May 2019. India's merchandise exports in Apr-May 2021 was US\$ 62.84 billion, an increase of 112.29% over US\$ 29.6 billion in Apr-May 2020 and an increase of 12.44% over US\$ 55.88 billion in Apr-May 2019.

**6** According to a report published by IAMAI and Kantar Research, India internet users are expected to reach 900 million by 2025 from ~ 622 million internet users in 2020, growing at a CAGR of 45% until 2025.

**7** The market capitalisation of Wipro reached Rs. 3 trillion (US\$ 41.09 billion) for the first time, making it the third Indian IT company to attain the milestone following Tata Consultancy Services and Infosys.

**8** India attracted highest ever total FDI inflow of US\$ 81.72 billion in FY21, an increase of 10% YoY. Measures taken by the Government on the fronts of Foreign Direct Investment (FDI) policy reforms, investment facilitation and ease of doing business have resulted in increased FDI inflows into the country.

**9** According to CyberMedia Research (CMR) India Consumer Storage Flash Device Market Review Report consumer storage market in India increased by 4% YoY in the first quarter of CY2021. The market includes micro SD, flash drive and SD card.

**10** According to Solvent Extractors' Association (SEA), India's oilmeal exports increased by 51.44% to 3.68million tonne in FY21 from 2.43 million tonne in FY20, attributable to a significant increase in soybean meal shipments.



## Export Promotion Council of India



### SPICES BOARD OF INDIA

Spices Board, Ministry of Commerce & Industry, Govt. of India is the flagship organization for the development and worldwide promotion of Indian spices. The Board serves as a link between the Indian exporters and importers abroad and has been spearheading activities for promoting Indian spices, in collaboration with Indian missions abroad. The multifaceted activities of the Board aims at helping the Indian Spice Industry in attaining the vision of becoming the international processing hub and premier supplier of clean and value added spices and herbs to the industrial, retail and food service segments of the global spices market. Indian Spices are renowned across the world for their rich intrinsic qualities, since time immemorial. India continues to be the leader in production, export and domestic consumption of spices in the world. During 2019-20, Indian spice production reached close to 10 million tonnes and the exports crossed 3 billion US \$ with a record volume of 11,83,000 tonnes registering a growth rate of 8% in volume, 10% in rupee terms and 8% in dollar terms over the previous year, despite the global pandemic situation. The Indian spice sector has a strong exporter base with over 6600 registered exporters, who export spices and value added spice products to over 180 destinations worldwide. India is the global leader in spice oils and oleoresins, curry powders, turmeric, chilli, cumin etc and a strong supplier of a wide range of spices and spice products worldwide.

#### Flavourit Spices Trading Limited (FSTL), an initiative of Spices Board

Spices Board, in order to promote a premium brand of authentic Indian spices to cater the needs of domestic and international markets, has incorporated a company - Flavourit Spices Trading Limited (FSTL). M/s FSTL is formulated to promote finest quality of Indian spices and to promote sustainability in all levels of the spice industry and procures spices from



progressive farmers, farmers groups and grass root organizations and works for strengthening the producers and entrepreneurs of spice sector by providing a platform to showcase their produce as well as facilitating market linkages.

M/s FSTL markets an array of spices and culinary herbs along with value added spices products across various segments which include lifestyle and personal care products, cosmeceuticals, spice gift boxes/hampers of different types, spice flavoured chocolates, Spices Kathakali, Spice Essential Oils and Extracts, Spice Boats of different sizes & shapes, etc.



*6 in 1 Book of Spices*



*Spices India 4 in 1 Box Of Spices*

#### Member Companies of the Spice Board:

##### Sidhartha Corporation Pvt Ltd.

Sidhartha Corporation Pvt Ltd, is a leading Three Star Trading House for chillies, groundnuts, sesame seeds, maize and other agro products. The company exports to various countries like Malaysia, Indonesia, Taiwan, Vietnam, Singapore, Thailand, China and other Asian countries. The company is having Head Office at Mumbai with branches at Chennai, Guntur, Mundur and Pipavav. The Company had earlier received awards from Spices Board for Topmost exporter of Chilli, outstanding performance in export of groundnut from APEDA and for excellence in export of groundnut from IOPEPC.

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##### Nandyala Satyanarayana

Nandyala Satyanarayana is a Government recognized Three Star Export House. The company was established in 1985. The company is certified under ISO 9001:2008. The company procures most of their raw materials directly from farmers. The company has won meritorious recognitions such as Outstanding Performance in the Export of Spices and the award for the Topmost Exporter of Chilli and the trophy for second Topmost Exporter of Spices from Spices Board earlier. The company bagged silver and

bronze medals from APEDA for export performance in fresh vegetable sector.

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#### Jabs International Pvt Ltd

Jabs International Pvt Ltd is a Government recognized Three Star Trading House. The company is certified under ISO 9001, ISO 22000, Halal, BRC, CRSIL, GMP etc. The company exports spices and other agro products to more than 70 countries in the world. The company has established in-house laboratory. It has production facility in Mumbai in Maharashtra and Unjha & Mundra in Gujarat. The company has received awards for Topmost Exporter of Spices and Oil seeds from Spices Board, Govt of Maharashtra, FIEO and ECGC earlier.

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#### AVT McCormick Ingredients Pvt Ltd

AVT McCormick Ingredients Pvt Ltd is a 50-50 joint venture of McCormick & Co USA, the largest spice company in the world and AV Thomas Group Companies, India. Established in 1994 as a 100 per cent EOU, the company has bagged many prestigious quality certifications including BRC, Rain Forest Alliance Processor, Organic Processor, Responsible Sourcing, Great Place to Work, GMP, HACCP, FSMSC & IPQC from Export Inspection Agency, Kosher, Halal, etc. The company's Laboratory is NABL accredited and ISO 17025 certified. The company received awards for excellence in spice exports from CEPZ, Spices Board and Kerala Productivity Council earlier.

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#### S P G Ramasamy Nadar & Sons

SPG Ramasamy Nadar & Sons is a recognized Star Export House by Government of India. The company was established in the year 1942. The company received awards for Topmost Exporter of Cardamom from the Board earlier. The company promoted their Farhana brand of cardamom in Saudi Arabia and other Middle East countries for more than a decade. Apart from cardamom, they export coffee, chicory, pepper, spice powders etc.

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#### Trident Creation

Trident Creation was established in the year 1960. It is a Government of India recognised export house, specialized in export of spices and oilseeds. The company exports to more than 15 countries. The company has received awards for Topmost Exporter of Groundnut oil and Top Exporter of Linseed earlier.

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#### Laxmi Enterprises

Laxmi Enterprises is a partnership firm established in the year 1984. The firm is a Government of India recognized Star Export House. The firm has Halal Certification, Star-K Kosher Certification, ISO 22000, HACCP, Organic Certification, FSMA and BRC. The firm's laboratory is ISO 17025 certified. The firm exports whole spices, ground spices / cryogenic ground spices, spices in consumer packs, heat treated spices, steam treated spices, roasted spices, herbs, etc. The firm received Topmost Exporter award for Turmeric and Fenugreek from Spices Board earlier. The firm uses best machines and technology in their plants to cater to the needs and demands of the customers. The firm has developed and implemented a special sustainable model to work hand in hand with the farmers.

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### **P.C. Kannan & Co**

P.C. Kannan & Co, was established in the year 1969. The company has been recognised as Two Star Export House by Government of India. The company has been certified under FSSC 22000. The company is operating spices processing units in major spice growing region of the country. The company exported coriander to more than 20 countries. The company received the award for Topmost Exporter of Coriander from Spices Board earlier.

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### **Asian Food Industries**

Asian Food Industries was founded in 1986. The company is a recognized Three Star Export House by Govt of India. The manufacturing unit is fully equipped with automated modern technology in line with industrial standards and norms. The company received Certificate of Merit and award for Topmost Exporter of Fennel from Spices Board earlier.

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### **Kanu Krishna Corporation**

Kanu Krishna Corporation is a recognised Two Star Trading House. The company has received Awards from Spices Board for Topmost Exporter of Nutmeg & Mace as well as Fennel earlier. Over the years, the company have developed an excellent Agro Product basket for processing and trading and simultaneously developed sophisticated infrastructure facilities for sourcing, processing and shipping. The other major facilities include large

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### **Eastern Condiments Pvt Ltd**

Eastern Condiments Pvt Ltd was established in 1983, manufacturing and marketing of spice powders, masala mixes, breakfast staples and a host of other products. The company's quality certification and accreditation include HACCP, BRC, and ISO 22000. The Eastern also has a strategic tie up with McCormick, the world's largest spice company. The firm has received the award for Topmost Exporter of Spices in Consumer Packs from Spices Board earlier. The markets of the firm are US, Europe, African and Middle East countries. The company processes the products in the state-of-art factories with a unique flavour lock technology.

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### **Plant Lipids Pvt Ltd**

Plant Lipids has established thirty four processing plants spread across geographies. The manufacturing facilities are certified under ISO 9001:2015, FSSC 22000 and laboratory is certified under ISO 17025:2005. The company exports oleoresins, essential oils, seasoning blends, speciality extracts, spray-dried products, food colours, ground spices as well as fragrance and functional ingredients ranging over 500 products catering to the needs of food flavoring, dairy, confectionery, beverages, bakery, snacks, processed foods, perfumery, cosmetics, pharmaceutical and nutraceutical industry in more than 80 countries. The company is having offices across India,

other parts of Asia, Europe, and Latin America.

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### **Aromatic & Allied Chemicals**

Aromatic & Allied Chemicals is a Govt of India recognized Star Export House. The company was started in 1983. The company exports of its various products viz. mint oil, natural essential oils and natural aroma isolates, aromatherapy carrier oils, herbal extracts, organic certified essential oils and perfumes. The company's R&D centre consists of GCMS, Automatic Refractometer, Polarimeter, etc. The Company is certified under ISO 9001:2008, HACCP, GMP, Kosher, Halal, NPOP / EU/NOP and GMO Free. The Company has received awards from Govt of Uttar Pradesh for export performance.

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### **Aryan International**

Aryan International was established in the year 2006 as a merchant exporter. The firm is a Star Export House having ISO 9001, ISO 22000 and GMP certifications. The company exported chillies to Malaysia, China, Vietnam, Singapore, Indonesia, Thailand and Mexico. The company received award for Topmost Exporter of Spices among Woman Entrepreneurs from Spices Board and Export Excellence Award from Govt of Karnataka earlier.

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## Government Initiatives for Business Development



The India Investment Grid (IIG) is an online portal developed by Invest India- the National Investment Promotion and Facilitation Agency and the Department for Promotion of Industry & Internal Trade

(DPIIT), Ministry of Commerce, Government of India, to showcase investible opportunities across the public and private sectors in India. IIG serves as a platform to connect potential investors to project promoters through a dynamic interactive platform. Through IIG, promoters can access a global platform to showcase their projects to investors from around the globe, while investors can search preferred investment opportunities, and connect with the project promoters.

FOR MORE INFORMATION VISIT:

<https://indiainvestmentgrid.gov.in/>

## News Articles

### Indian Railways on way to become "Largest Green Railways" in the world with Zero Carbon Emission: Press Information Bureau

Indian Railways (IR) is working in mission mode to become the largest Green Railways in the world and is moving towards becoming a "net zero carbon emitter" before 2030. Railways is guided by a holistic vision of being an environment friendly, efficient, cost effective, punctual and a modern carrier of passengers as well as freight in order to serve the growing needs of New India. IR is looking at helping the environment with steps ranging from massive electrification, water & paper conservation, to saving animals from being injured on Railway tracks.

Railway Electrification, which is environment friendly and reduces pollution, has increased nearly ten times since 2014. Capturing the economic benefits of electric traction in an accelerated manner, Railways has planned to electrify balance Broad Gauge (BG) routes by December 2023 to achieve 100% electrification of BG routes. Head-On-Generation systems, Bio-Toilets and LED lights recreate the train itself into a travel mode that is kinder to the environment while maintaining comparable passenger comfort.

IR's Dedicated Freight Corridors are being developed as a low carbon green transportation network with a long-term low carbon roadmap, which will enable it to adopt more energy efficient and carbon-friendly technologies, processes and practices. IR is implementing two Dedicated Freight Corridor projects viz. Eastern Corridor (EDFC) from Ludhiana to Dankuni (1,875 km) and Western Corridor (WDFC) from Dadri to Jawaharlal Nehru Port Trust (1,506 km). Sonnagar-Dankuni (538 km) portion of EDFC has been planned for execution on Public Private Partnership (PPP) mode.

IR's network and reach enabled movement of Freight, like Food Grains & Oxygen in pandemic, even while being more environment friendly as compared to Road transport. During the period April 2021 to May 2021, the Indian Railways moved 7.3 million tonnes of food grains and has run 241 loaded Oxygen express trains, moving 922 loaded tankers, thereby transporting 15,046 tonnes of oxygen to various part of the country.

Green Certifications and implementation of Environment Management System:

MoU signed between IR and Confederation of Indian Industry in July 2016 for facilitation of Green initiatives on IR. 39 Workshops, 7 Production Units, 8 Loco Sheds and one Stores depot have been 'GreenCo' certified. These include 2 Platinum, 15 Gold and 18 Silver ratings.

Green certification mainly covers assessment of parameters having direct bearing on the environment, such as, energy conservation measures, use of renewable energy, Green House Gas emission reduction, water conservation, waste management, material conservation, recycling etc. 19 Railway Stations have also achieved Green Certification including 3 Platinum, 6 Gold and 6 Silver ratings. 27 more Railway Buildings, Offices, Campuses and other establishments are also Green certified including 15 Platinum, 9 Gold and 2 Silver ratings. In addition, over 600 Railway Stations have been certified for implementation of the Environment Management System to ISO: 14001 in the last two years. A total of 718 stations have been identified for ISO : 14001 certification.

Indian Railways has incorporated Climate Change features in its own risk assessments and disaster management protocols. As an organisation ready to manage the risks, and ask the right questions about its assets, routes & investments. Top management in IR's many public sectors have been communicating with stakeholders for a shared understanding, needed for long-term health and sustainability of the organisations they lead.

The Environment Sustainability Report published by IR and subsidiary units each year sets up a framework document defining strategies and focus points on the context of climate change, the issues at stake, and steps for dealing with them. It helps railways to support government commitments such as the Paris agreement on climate change, the UN Sustainable Development Goals and National Disaster Management Plans.

Wide ranging experiences of engineers, operators and planners in different zones & construction units of the Indian Railways constantly face different challenges. Some sophisticated approaches by international asset managers, railway operators, rolling stock engineers, scenario planners and others are studied through consultancy reports.



Appropriate interpretation matching the IR's own realities and ground situation suitably adapts the efforts of departmental managers in anticipating and facing up to those challenges.

## India's wearables market shipped 11.4 million units in 1Q21, up 170.3% on-year: International Data Corporation; IBEF

According to the International Data Corporation's (IDC) Worldwide Quarterly Wearable Device Tracker report, wearables market (earwear, wristband, and watch) in India increased by 170.3% YoY in the first quarter of 2021, driven by strong demand among users in the country. The market recorded a shipment of 11.4 million units in the first quarter of 2021.

In terms of wearables market category, the watches segment increased by 463.8% YoY in the first quarter of 2021, driven by strong demand. The market recorded the highest ever first-quarter wearables shipments in India and the fastest-growing segment in wearables. This was followed by wristwear wearables segment (wristbands and watches), which increased by 74.8% YoY.

In the first quarter of 2021, the earwear category registered an increase of 209.3% YoY at 9.3 million shipments. Ms. Anisha Dumbre, Market Analyst, IDC India, said, "The earwear category indicates strong demand due to the current consumer interest for earwear devices. Vendors are aiming to benefit from the low and mid-priced devices. To tap to new users, vendors also plan to add improved features in the wearables."

Wristbands registered shipments of 760,000 units, led by Xiaomi, and followed by OnePlus, (a new entrant in the category).

The first quarter of 2021 registered shipments 1.4 million watches. The market was dominated by Noise followed by boAt. In the watches category, the average selling price (ASP) stood at US\$ 88 in the first quarter of 2021, due to the demand for low-cost and affordable devices among users.

The earwear category was led by boat, followed by OnePlus. In the overall earwear category, the Truly Wireless Stereo (TWS) segment increased by 284.4% YoY with a 35.0% share to the earwear market. It was led by boAt, followed by OnePlus, primarily backed by OnePlus Buds Z.

India Wearables Market, Product Categories, Market Share, Year-over-Year Growth 2021Q1 (Shipments are in Thousands of Units)

Product Category	1Q21 Shipments	1Q21 Market Share	1Q20 Shipments	1Q20 Market Share	Year-over-Year unit change (1Q21 vs 1Q20)
1. Earwear	9,265	81.2%	2,996	71.0%	209.3%
2. Wrist Band	760	6.7%	978	23.2%	-22.4%
3. Watch	1,379	12.1%	244	5.8%	463.8%
<b>Total</b>	<b>11,403</b>	<b>100%</b>	<b>4,219</b>	<b>100%</b>	<b>170.3%</b>

Source: IDC Quarterly Wearable Device Tracker, May 2021

Mr. Jaipal Singh, Associate Research Manager, Client Devices, IDC India, said, "Over last year, the wearables value has rapidly expanded, and the demand for the devices is expected to further increase significantly in 2021."

## Strong pipeline for small biz IPOs; BSE SME to see over 60 listing in one year: The Economic Times

More than 60 small and medium enterprises (SMEs) are expected to tap the market in one year to raise equity funds for supporting their business requirements, a BSE top official said on Wednesday. These companies will get listed on the exchange's SME platform, Ajay Thakur, head of BSE SME and Startup told.

Last year, only 16 SMEs had tapped the initial public offering (IPO) route and raised 13.71 million USD.

To encourage the equity culture among SMEs, Thakur said that the exchange is taking proactive measures to organise webinars, collaborate with state governments and other professional associations.

During the pandemic, the exchange has organised around 150 webinars to create awareness among SMEs about the advantage of equity funding and listing, he said.

According to Thakur, lack of awareness about listing has led to a lot of pre-conceived notions that listing involves increased compliance levels and increased costs.



He opined that listing will help SMEs to increase their visibility as well as brand building; improve their credit rating, provide easy finances and growth opportunities.

"BSE SME became the first SME platform where 400 prospectuses have been filed by SMEs. Of these, 337 have already listed and the remaining 63 will be listed in one-year time because of the ongoing pandemic," Thakur said.

Last year, too, because of the several steps taken by us, we saw one company got listed every month on the platform, he added.

Funds raised through the issue will be used for business expansion plans, capital expenditures or working capital requirements and other general corporate purposes.

These companies belong to a wide range of sectors, like IT, automotive components, pharma, infrastructure and hospitality.

Over the years, BSE SME platform has emerged as the most cost-effective platform for small and medium enterprises to garner funds and create visibility, Thakur said.

BSE had launched SME platform in March 2012 to provide opportunity to such firms to raise capital for growth and expansion.

Since then a total of 337 companies got listed on its SME segment and raised US\$ 481.05 million. These companies have a collective market capitalisation of over US\$ 3.61 billion.

Of these 337 firms, 99 have migrated to the main board platform.

Besides, around 10-12 companies are listed on BSE startups platform, which was launched in December 2018, to facilitate funding for the deserving startups by enabling them to raise capital from the market.

## India ranks third in Renewable Energy Country Attractiveness Index; IBEF

India climbed up rank to third place in EY's Renewable Energy Country Attractiveness Index, driven by strong performance in solar PV, with solar PV capacity expected to surpass coal before 2040.

The US ranks at the top of the Index and is anticipated to maintain that position. China has continued to be a major market, maintaining second place with 72.4 GW of new wind power estimated for 2020.

Somesh Kumar, Partner and National Leader, Power & Utilities, EY India, said, "India has jumped one spot from its previous position in the ranking, owing to its outstanding performance in solar PV. India's installed solar PV capacity has increased to 39 GW, nearly exceeding wind capacity for the first time."

He added that solar PV's economic value and strong competition from the private sector have resulted in record-low tariff offers.

India's solar market is projected to grow rapidly, with solar PV generation predicted to surpass coal before 2040, owing to the government's policy aspirations, which have made solar PV a cost-competitive source of power in the region, which is likely to improve further with the passing time.

Despite the effects of the global COVID-19 pandemic, global renewable energy capacity investments increased by 2% to US\$ 303.5 billion in 2020, the second-highest annual number ever reported.

Future development to attain net zero would demand an additional US\$ 5.2 trillion investment, highlighting the importance of institutional investors in supporting the energy transition.

Mr. Ben Warren, EY Global power and utilities corporate finance leader and report's chief editor said, "The economic impact of the pandemic appears to have refocused investors' attention... As a result, institutional investors have agreed to bring climate-risk concerns into their decision-making strategies, resulting in new investment models for renewable energy development."



Japan and South Korea, both in East Asia, were ranked eighth and seventeenth, respectively. According to the report, East Asia has a significant stream of clean-energy projects, with over 800 shovel-ready schemes totalling US\$ 316 billion in investment potential.

## Forum for Indian Science Diplomacy

### Biotech startup claims breakthrough in early-stage cancer detection

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Scientists at Singapore-based molecular diagnostic startup Tzar Labs and Mumbai-based Epigeneres Biotechnology have developed a non-invasive, blood-based diagnostic tool called HrC that can detect as well as classify solid tumors, hematological malignancies and sarcomas, based on their stage. A clinical study on 1,000 participants, led to two major outcomes – i) peripheral blood of cancer patients had large numbers of VSELs (Very Small Embryonic-Like Stem Cells) than those without cancer and ii) Oct4a expression of a transcription factor within the cell, was varying according to the cancer stages in the patient. Based on these findings HrC scale can detect cancer, predict and monitor treatment outcome and can also serve as an early biomarker. There is still significant work needed backed by larger study before it can be translated into an accepted diagnostic test.

### Innovative, Low Cost charging infrastructure for Electric Vehicles

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The DST, the Office of the Principal Scientific Advisor to the Government of India, in close co-ordination with NITI Aayog team and manufacturers of electric vehicles and charging devices has developed a low-cost AC Chargepoint (LAC) infrastructure for electric two and three wheelers. A target price of less than Rs. 3500 (\$50) has been set for a smart AC charge point operated with a smartphone. LAC allows up to 3 kW of power to be drawn for charging e-scooters and e-autorickshaws. The user's smartphone will communicate with the LAC via low-power Bluetooth and link up to a back-end where transaction payments and analytics are enabled. The user's smartphone can be used for multiple accounts and payment options. The new standards for LAC will be ratified by the Bureau of Indian Standards. The LAC device is intended to be highly scalable and

deployed in any place where a 220V 15A single phase line is available.

### Low-cost magnetometer for real-time measurements of magnetic fields

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Scientists from Raman Research Institute (RRI), Bengaluru, have devised a more efficient, faster, and low-cost digital receiver system (DRS) that can make precise measurements of magnetic fields. The hardware of digital receiver systems has been built with standard silicon-based memory devices and computer codes are implemented which make these devices perform mathematical operations on the signal they receive, enabling DRS to measure fundamental properties of matter like 'Spin'. The spin of electrons determines the magnetism of the objects around. The researchers designed the system to work in two different modes. Their method speeds up the calculations compared to the standard method. They measured a magnetic field of 800 microgauss (roughly a thousand times smaller than the Earth's magnetic field) within a tenth of a second. For commercialisation of the device, the researchers are open to partner with industry.

### Recycling Carbon technology by Indian startup receives award

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A Bangalore based startup has received the National Award 2021 from the Technology Development Board (TDB) for developing a commercial solution for conversion of CO<sub>2</sub> to chemicals and fuels. Breathe Applied Sciences, a startup incubated at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) developed efficient catalysts and methodologies for the conversion of CO<sub>2</sub> to methanol and other chemicals. The startup signed an agreement with JNCASR for the transfer of technology based on lab-scale research on reducing CO<sub>2</sub> to methanol and other useful chemicals and fuels. A pilot plant has been set up with a capacity of CO<sub>2</sub> conversion of 300 kg per day, which can be scaled up to several 100 tons in an industrial scale.



# Focus Sector

## Infrastructure

Infrastructure sector is a key driver for the Indian economy. The sector is highly responsible for propelling India's overall development and enjoys intense focus from Government for initiating policies that would ensure time-bound creation of world class infrastructure in the country. Infrastructure sector includes power, bridges, dams, roads, and urban infrastructure development.

### Market size:

According to the Department for Promotion of Industry and Internal Trade (DPIIT), FDIs in the construction development sector (townships, housing, built up infrastructure and construction development projects) and construction (infrastructure) activities stood at US\$ 25.93 billion and US\$ 23.99 billion, respectively, between April 2000 and December 2020.

### Government Initiative and investment

In Union Budget 2021, the government has given a massive push to the infrastructure sector by allocating US\$ 32.02 billion to enhance the transport infrastructure. The government expanded the 'National Infrastructure Pipeline (NIP)' to 7,400 projects. ~217 projects worth US\$ 15.09 billion were completed as of 2020. The key highlights of the Budget 2021 are as follows:

- In March 2021, the Parliament passed a bill to set up the National Bank for Financing

Infrastructure and Development (NaBFID) to fund infrastructure projects in India.

- Indian railways received US\$ 15.09 billion, of which US\$ 14.69 billion is for capital expenditure.

- The government announced around US\$ 2.61 billion for metro projects.

- Mega Investment Textiles Parks (MITRA) scheme was launched to establish world-class infrastructure in the textile sector and establish seven textile parks over three years.

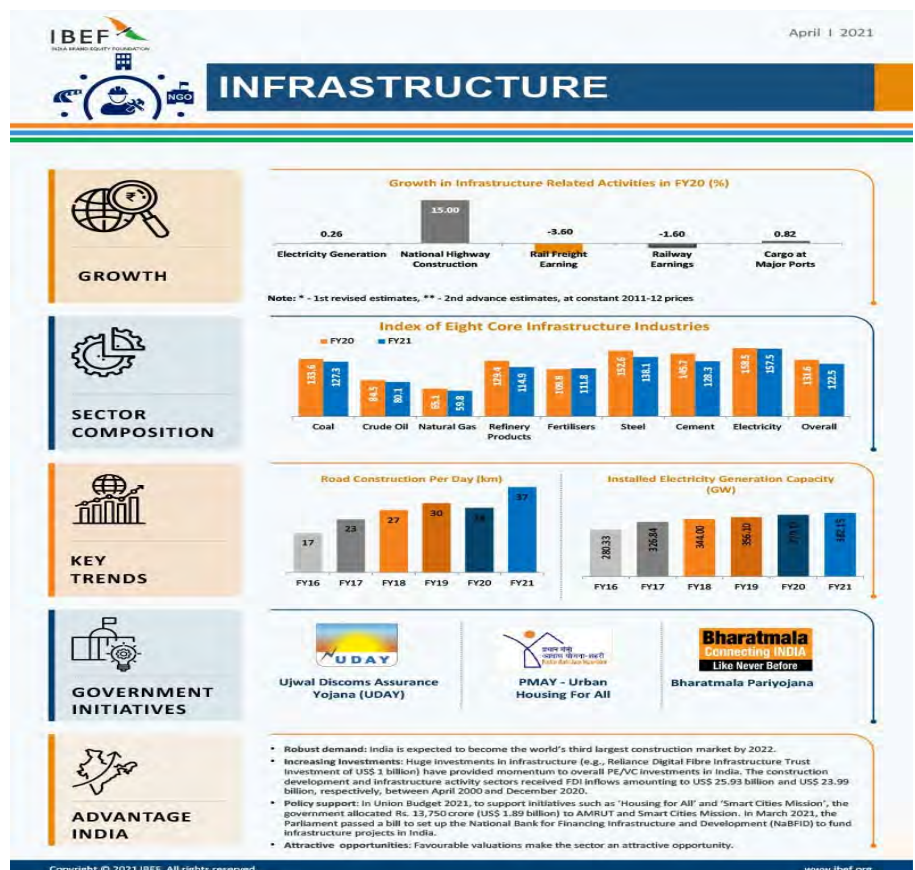
- The government announced US\$ 42 billion over the next five years for a revamped, reforms-based and result-linked new

power distribution sector scheme.

### Road Ahead:

The infrastructure sector has become the biggest focus area for the Government of India. India plans to spend US\$ 1.4 trillion on infrastructure during 2019-23 to have a sustainable development of the country. The Government has suggested investment of US\$ 750 billion for railways infrastructure from 2018-30.

India and Japan have joined hands for infrastructure development in India's Northeast states and are also setting up an India-Japan Coordination Forum for Development of Northeast to undertake strategic infrastructure projects for the region.





# Indian State Economic Profile

## Uttar Pradesh

Uttar Pradesh is the most populous state in India with a population of nearly 200 million people. Uttar Pradesh shares its borders with Nepal on the north, the Indian states of Uttarakhand and Himachal Pradesh on the northwest, Haryana, Delhi and Rajasthan on the west, Madhya Pradesh on the south, Chhattisgarh and Jharkhand on the southeast, and Bihar on the east.

The Gross State Domestic Product (GSDP) of Uttar Pradesh grew at a CAGR of around 8.43% between 2015-16 and 2020-21 to reach Rs. 17.06 trillion (US\$ 234.96 billion). The Net State Domestic Product (NSDP) grew at a CAGR of around 8.42% between 2015-16 and 2020-21 to reach Rs. 15.12 trillion (US\$ 208.34 billion).

Uttar Pradesh is a favored tourist destination in India with Taj Mahal, one of the eight Wonders of the World, located in Agra. In 2019, domestic tourist arrivals in the state reached 535.8 million. Foreign tourist arrivals crossed over 4.74 million.

As of February 2021, Uttar Pradesh had an installed power generation capacity of 27,309.40 MW—6,242.00 MW (state utilities), 13,411.49 MW (private utilities) and 7,655.71 MW (central utilities). Energy requirement in the state was 107,109 million units (MU) between 2019-20.

Uttar Pradesh is the largest producer of food grains in India and accounted for about 17.83% share in the country's total food grain output in 2016-17. Food grain production in the state stood at 49,903.1 thousand tonnes in 2016-17 and 51,252.7 thousand tonnes in 2017-18. Major food grains produced in the state include rice, wheat, maize, millet (bajra), gram, pea and lentils.

Pulses production in the state stood at 2,208.0 thousand tonnes in 2017-18. The state remains the largest producer of vegetables in India and produced 1,002.64 thousand MT of vegetables in 2018-19.

As of October 2020, Uttar Pradesh had 21 notified, 13 operational SEZs and 24 formally approved SEZs.

The state attracted Foreign Direct Investment (FDI) equity inflow worth US\$ 560.74 million between October 2019 and December 2020 according to the data released by Department for Promotion of Industry and Internal Trade (DPIIT). In 2019, 147 investment intentions worth Rs. 16,799 crore (US\$ 2.40 billion) were filed in Uttar Pradesh.

Merchandise exports from Uttar Pradesh reached US\$ 16.99 billion in 2019-20 and US\$ 12.93 billion in April 2020 to January 2021.

In 2020, the state govt. rolled out New Electronics Manufacturing Policy, 2020 and Uttar Pradesh Startup Policy, 2020, to promote the local manufacturing and new startups in the state.

### Key Sectors:

- In January 2021, the state government announced its plan to build 1,038 new Ganga aarti platforms along the river in Bijnor and Ballia districts.

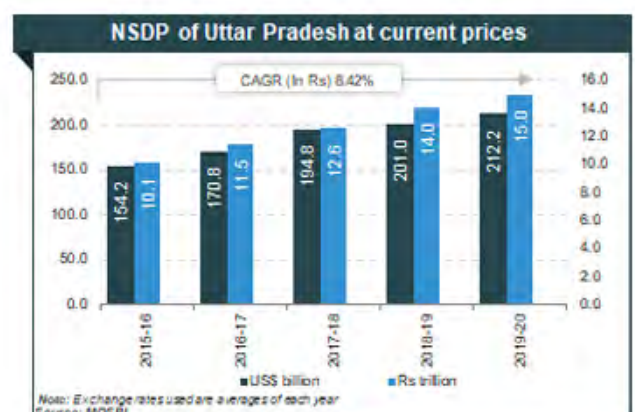
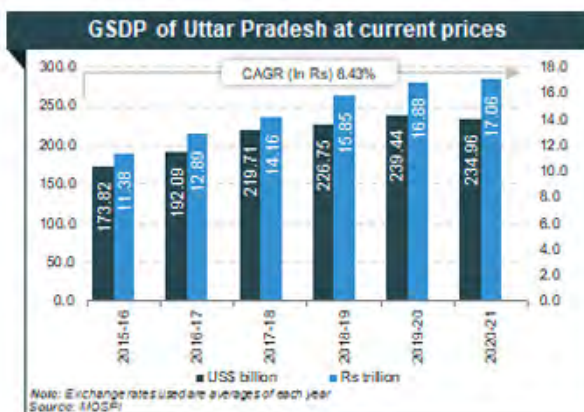
- In February 2020, the state organised Defence Expo-2020 and received proposals worth US\$ 70.93 billion for investment.

- In November 2020, Union minister for road transport, highways and MSMEs Mr. Nitin Gadkari inaugurated and laid the foundation stone of 16 highway projects worth US\$ 1.06 billion in Uttar Pradesh.

- In December 2019, Zurich Airport International got the approval from the state cabinet to develop and construct Jewar Airport.

- Uttar Pradesh accounts for strong demand for fertilisers on account of the high availability of acreage coupled with the large size of the state.

- In November 2020, Uttar Pradesh Chief Minister, Mr. Yogi Adityanath dedicated power projects worth about US\$ 30.64 million to Gorakhpur in a pre-Diwali gesture.





## Indian Trade Fairs/ Webinars

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# Tourism

## Arunachal Pradesh

<http://www.arunachaltourism.com/>



Rafting on the Siang River, Arunachal Pradesh



Tawang Monastery, Arunachal Pradesh

“The last of the great Shangri-La..” ‘Shangri-La is a mystical, harmonious valley’ or so goes the description in James Hilton’s 1933 novel, Lost Horizon. Hilton went on to describe a Garden of Eden on Earth: a land of milk and honey in a hidden Himalayan valley, where nobody grew old or ugly. Over the years, there’s been no shortage of contenders for the title of ‘Lost Shangri-La’ but now there’s a new kid on the block: Arunachal Pradesh”. The thunderous Himalayan peaks so little known that few have been named, let alone climbed, plus jungles teeming with life forms that scientists are yet to catalogue, delicately tattooed and pierced tribal peoples living in long houses in the forest, magnificent Buddhist Temples and a severe dose of near limitless adventure. Lonely planet’s top 4 regions in the world.

Arunachal Pradesh, a veritable treasure house of nature, tucked away in the north eastern tip of India, invites you to relax in its picturesque hills and vales encircled on three sides by Bhutan, China and Myanmar. Come to Arunachal Pradesh to relive in nature in its full splendour. Enjoy the salubrious climate and meet its simple and hospitable people. Snowy misty, famous monasteries, unexplored passes and tranquil lakes come together to form some of the prettiest mountain spots in Arunachal Pradesh. For a tourist the options are varied, each more tempting than the other.

Arunachal Pradesh has 12 tourist circuits across 83,500 sq. Km and each tourist circuit is distinctive in character with different ethnic culture, topography and vegetation.

### Tezpur-Bhalukpong-Bomdila-Tawang

The circuit covers a distance of 350 km starting from Tezpur in Assam to the 17th century Tawang Monastery situated at an altitude of 10,000 ft.

### Itanagar-Ziro-Daporijo-Aalo-Pasighat

Itanagar (Capital of Arunachal Pradesh) has a rich mixture of archeological sites of great historical value and built up resources and institutions of great socio-cultural significance.

### Pasighat-Jengging-Yingkiong-Tuting

Pasighat, the headquarters of East Siang district is located 270 kms away from itanagar, the capital of Arunachal Pradesh. It is the oldest administrative center of erstwhile NEFA. It is situated on the banks of the mighty river Siang, the main tributary of the mighty Brahmaputra river. Bounded by snowclad peaks, rocky mountains and a variety of flora & fauna, this circuit offers a unique opportunity for anyone who loves nature.

### Tinsukia-Tezu -Hayuliang



This circuit starts from Tinsukia in Assam to Namsai and Tezu in Lohit district and Hayuliang in Anjaw district of Arunachal Pradesh. The entry point in Arunachal is at Dirak.

### **Margherita- Miao- Namdhapa- Vijoy nagar**

This circuit begins from Margherita in Assam and entry point in Arunachal is at Namchik. Miao is the sub divisional headquarters with splendid natural beauty of Noa-Dihing river and green surroundings. Mini Zoo, Forest Museum, Wildlife Library and Tibetan Refugee Camp are the other places of interest.

### **Roing-Mayudia-Anini**

Roing is a picturesque town in a valley by the side of the Dibang River. The Lower Dibang Valley District is located in the eastern most part of Arunachal Pradesh. The topography varies from flat to snow peaked mountains.

### **Tezpur-Seijosa-Bhalukpong**

This circuit takes one to the Pakhui Wildlife Sanctuary one of the largest sanctuaries of Arunachal Pradesh located in the East Kameng district with Forest Divisional headquarter at Seijosa. The wildlife sanctuary spreads over an area of 861.95 sq km and has been declared as a Project Tiger Reserve (Pakke Tiger Reserve).

### **Ziro-Palin-Nyapin-Sangram-Koloriang**

Palin & Nyapin are beautiful hill stations worth visiting for enjoying high mountains and colourful tradition and culture of the Nyishi community of Kurung Kumey District.

### **Doimukh-Sagalee-Pake Kessang-Seppa**

Doimukh (25 km from Itanagar) is situated on the left bank of river Pare. Rajiv Gandhi University is situated on a hill top called Rono Hill.

### **Aalo-Mechuka**

Aalo is a picturesque valley at the confluence of Sipu and Siyom River. Surrounded by hills and beautiful orange orchards, this is another exotic nature getaway in Arunachal Pradesh.

### **Daporijo-Taliha-Siyum-Nacho**

Taliha, Siyum & Nacho all the three destinations are located on the hill slopes by the side of the Subansiri river.

### **Jairampur-Manmao-Nampong-Pangsau Pass**

It is headquarter of Jairampur sub-division. The famous historic 'Stilwell Road' passing through this small town from Ledo, Assam, India to Kunming, Yunnan Province, China via Burma.

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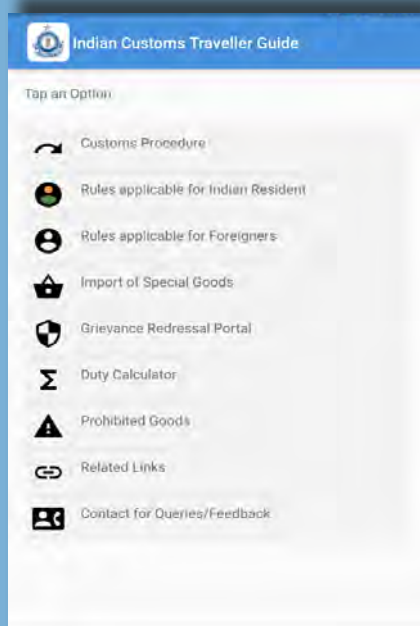
## Guide for Travellers- Baggage Rules



The Central Board of Excise and Customs (CBEC) has launched mobile app "Indian Customs- Guide to Travellers" for dissemination of information about Customs Baggage Rules, 2016.

The application has been launched to inform traders, exporters and importers about Customs Baggage Rules, 2016.

It has been developed by Bengaluru Customs and is available on Android Play store, Apple Store and Windows Store.



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Embassy of India, Vienna



Ambassador Jaideep Mazumdar

Embassy of India, Vienna  
cordially invites you to  
*Ambassador's Interaction*  
with  
Indian Community Members

Venue: Zoom Platform, 16<sup>th</sup> June, 2021. 17:30-18:30 Hrs

Embassy of India, Vienna cordially invites you to Ambassador's Interaction with Indian Community Members on June 16, 2021 at 1730 hrs. To register : [CLICK HERE](#)

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- His contact details are: 0043 1 505 866 and [ccl.vienna@mea.gov.in](mailto:ccl.vienna@mea.gov.in)

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