



EMBASSY OF INDIA, VIENNA

Issue 118

India Newsletter

November 2022



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आरत 2023 INDIA





The G20 is the premium platform for worldwide economic cooperation, encompassing over two-thirds of the world's population, over 75% of global trade, and 85% of the global GDP. On all significant international economic issues, it plays a significant role in forming and strengthening the global architecture and governance.

India will hold the Presidency of the G20 from 1 December 2022 to 30 November 2023. The Maha Upanishad, a prehistoric Sanskrit scripture, serves as the inspiration for the theme of India's G20 Presidency "Vasudhaiva Kutumbakam" or "One Earth, One Family, One Future". The theme essentially emphasizes the importance of all life—human, animal, plant, and microorganism—as well as their interdependence on Earth and across the cosmos.

www.g20.in

Snapshots

1 Climate 2023, India moved up in ICT. two spots to take eighth place out of 63 nations.

2 Prime Minister Mr. the G20 meeting producing 50% of its same month last year. electricity from renewable sources by 2030.

3 According International (IDC), Corporation businesses investing in Perception Survey 2022. digital transformation helped India's and IT business services industry grow 7.4% in the first half of 2022.

4 Auto suppliers are likely to 8-10% have revenue growth this fiscal year, supported by solid domestic **OEMs** and pent-up aftermarket according demand. to credit research from ratings agency ICRA.

5 have agreed to advance bilateral collaboration

and expand cooperation in According to the areas like digital education, resources development Change future mobile technologies, management,

b According to the newest

figures by Federation of Automobile Dealers Narendra Modi said at Association of India (FADA), National

> f 7 Minister of Housing and f 12 India Space Congress, to S Puri, inaugurated the number of Data Transport4All Challenge showcase Stage-2 and

8 India is poised to experience the world's largest roll-out of 5G infrastructure with multibillion dollar investments component by the nation's top telecoms over the coming years.

> India's agricultural and processed exports food increased by 25% to US\$ 13,771 million in Q2 of the current fiscal (2022-23).

10 A Memorandum of India and Finland Understanding (MoU) was signed between India and Denmark on collaboration

in the of area water and and this Performance Index (CCPI) and the digital partnership knowledge was shared with the Union Cabinet, presided over by Prime Minister Mr. Narendra Modi.

11 According to the Payments in retail electric car sales in Corporation of India (NPCI), Indonesia that India is on India increased by around UPI conducted 7.3 billion pace to meet its goal of 185% in October over the transactions worth US\$ 146.6 billion in October 2022.

> Urban Affairs, Mr. Hardeep 2022 (ISC'22) announced a initiatives to excellence. Citizen including partnering with Microsoft to extend Founders Hub benefits the 15 to shortlisted startups and engaging with the 'iDEX 75 Space Challenges' announced by Minister Prime Mr. Narendra Modi during the Defence Expo.

> > 13 The region of Jammu and Kashmir has seen 16.20 million tourists in 2022, the highest in India's 75 years of independence.

> > 14 According to Meta, India is the most important country in terms of all the new features that are available on Facebook, Instagram, and WhatsApp.

India, EU ink pact on climate, quantum tech: Livemint

India and the European Union (EU) signed an agreement on cooperation in areas such as climate modelling and quantum technologies, building on the Trade and Technology Council launched by the two sides earlier this year.

The "Intent of Cooperation on High-Performance Computing (HPC), Weather Extremes and Climate Modelling and Ouantum Technologies" was signed by India's ministry of electronics and IT (MeitY) and European Commission's the Directorate-General for Communications Networks. Content and Technology (DG CONNECT) during a virtual ceremony.

The agreement builds on commitments by both sides for deepening technological cooperation on quantum and high-performance computing during the India-EU leaders meeting on 8 May.

"Moreover, the signing of the agreement assumes significance in the context of the decision to set up EU-India Trade and Technology Council (TTC)" on 25 April, an EU statement said.

The agreement signed aims to facilitate collaboration on highperformance computing applications using Indian and European supercomputers in areas such as bio-molecular medicines. covid-19 therapeutics, mitigating climate change, predicting natural disasters quantum and computing, the statement said.

The agreement was signed by MeitY secretary Alkesh Kumar Sharma and Roberto Viola, director general of the Directorate General of Communication, Networks, Content Under the agreement, Airbus will and Technology. Under the first 16 aircraft in 'fly-

India's food service market to reach \$79.65 bn by 2028: Business- Standard

India's food service market is expected to reach USD 79.65 billion by 2028, growing at a CAGR of 11.19 per cent from USD 41.1 billion in 2022, according to a report.

Despite over 2 million jobs lost during the peak of the COVID-19 pandemic, the industry is expected to reach employment figures of 10 million by 2025, as per the Food Service and Restaurant Business Report 2022-23, by Francorp and restaurantindia.in.

The restaurants and food service market in the country is divided into two segments with the unorganised segment accounting for the major share, the report said, adding that the organised sector also grew at a strong rate between 2014 and 2020.

"India's food service market is anticipated to project robust growth in the forecast period with an impressive CAGR of 11.19 per cent and reach USD 79.65 billion by 2028," it said.

It further said that the country's quick service restaurants (QSR) market is estimated to be USD 690.21 million in 2022 and is expected to reach USD 1069.3 million by 2027, growing at a CAGR of 9.15 per cent.

Over FY20-25, the QSR chain market is estimated to be the highest-growing sub-segment -- at 23 per cent CAGR -- in the entire food service market, not just the chain market.

This will be on the back of large food service chains such as McDonald's, Burger King, and Domino's, among others, deepening their reach in India's smaller cities and benefiting from a younger demographic. deliver the first 16 aircraft in 'flycondition from its final awav' assembly line in Seville, Spain within four years and the subsequent 40 aircraft will be manufactured and assembled by Tata Advanced Systems (TASL) in India as part of an industrial partnership between the two companies.

India and Finland agree to carry mutual cooperation between the two countries to a new level and enhance partnership in areas such as Digital Partnership in Future ICT, Future Mobile Technologies and Digital Education: PIB

India and Finland have agreed to advance bilateral collaboration and expand cooperation in areas like digital education, future mobile technologies, and the digital partnership in ICT.

Mr. Petri Honkonen, Minister of Education and Culture of Finland, met with Dr. Jitendra Singh, Minister of Science and Technology on November 14, 2022 at North Block to discuss ways to improve bilateral collaboration between the two nations in the field of Science, Technology and Innovation (STI).

Mr. Honkonen praised Prime Minister Mr. Narendra Modi for handling the Covid-19 pandemic and the Government of India's efforts to ensure the development of vaccines and vaccination for all citizens while Dr. Singh reaffirmed India's commitment on partnership even in start-ups.

In the fields of science, technology, and innovation, India and Finland have close ties. The Department of and Technology, Science Department of Biotechnology, Government of India, Ministry of Economic Affairs and Employment of Finland, along with Business Finland and Academy of Finland, been working have together successfully for more than ten

years within the framework of the S&T agreement.

Governent plans to roll out PLI scheme to encourage container manufacturing: IBEF

To promote container manufacturing in India, the Center is developing a new production-linked incentive (PLI) scheme. Funding for the scheme might come in part from savings from PLI schemes that are already in place.

In order to fund the new PLI scheme, a portion of the savings totaling US\$ 1.42 billion will be redistributed, according to a decision made by a powerful group of secretaries led by Cabinet Secretary Mr. Rajiv Gauba.

India currently imports а sizable portion of its containers from China because it lacks a thriving market for container manufacturing. Container supply from China had suffered significantly during the pandemic, sparking a huge frenzy in container markets around the world. An official claimed that the container market was more negatively impacted by global trade uncertainties than bv the slowdown the general in economy.

It is anticipated that domestic container production will lessen India's reliance on China while also reducing logistics expenses.

India's agricultural and processed food products export up by 25% to US\$ 13,771 million in Q2 of the current fiscal (2022-23) compared to the same period last year: PIB Exports of agricultural and processed food items increased by 25% in the first six months of the current fiscal year 2022-23 (April-September) compared to the same period in FY 2021-22. According to preliminary data issued by the Directorate General of Commercial Intelligence and Statistics (DGCI&S), overall exports of agricultural and processed food goods increased by 25% in US\$ April-September from 2022.

The total export of Agricultural and Processed Food Export Development Authority (APEDA) products climbed to US\$ 13,771 million from US\$ 11,056 million in the previous fiscal year in April-September 2022. The actions implemented by the Ministry of Commerce and Industry through APEDA have assisted the country in meeting 58% of its total export target for 2022-23 within the first six months of the current fiscal year. APEDA has set an export target of US\$ 23.56 billion for the agricultural and processed food products basket for the fiscal year 2022-23, with the export of US\$ 13.77 billion already reached in the first six months of the current fiscal.

According to DGCI&S preliminary processed fruits data, and vegetables increased by 42.42% (April-September 2022), while fresh fruits increased by 4% compared to the same months the previous year. In addition. processed food products such as cereals and other processed items increased by 29.36% compared to the first six months of the previous year.

With1.17billionsubscribers,Indiaisworld's2nd largest telecommarket,saysTRAIchairmanDr. PD Vaghela

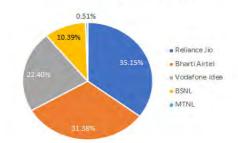
With 1.17 billion telecom users and 825 million broadband subscribers, India is currently the second-largest telecom market in the world, according to Dr. P. D. Vaghela, Chairperson of the Telecom Regulatory Authority of India (TRAI).

Telecom Regulatory Authority of India (TRAI) organised a workshop "Vision for Socio-Economic on Transformation in NE States - Role of 5G Technologies and Digital Infrastructure" in Guwahati to help people better understand and address the problems and obstacles associated with bringing transformational technology to all of the Northeastern Region's states.

According to Dr. Vaghela, 5G technology will help India realise its aim of empowering its citizens digitally and enhancing their quality of life. According to him, the adoption of 5G technology would result in major network performance gains, as well as a likely transformation of society and industry that would propel the nation on a never-before-seen growth trajectory. He noted that 5G would have a significant impact on a number of industries as well as the general economy.

He emphasised how the stakeholders can work together to speed up the development of the infrastructure needed for 5G. taking into account the problems and difficulties in the NE states. According to him, the government's top priority is to ensure that every segment of society has connectivity at all costs by giving everyone, particularly those who are underserved, access to the internet and other digital technologies.

Telecom Market Share FY22



New Generation Superabrasive Tools

A research team at IIT Madras has developed new-generation multi-point/single-layer

superabrasive tools for advanced grinding applications. They used advanced chemical bonding technology with an applicationspecific novel formulation of filler material and controlled spacing of grits on the tools by an indigenously developed semiautomatic grit-printing device. The novel formulation offers an excellent blend of strength, wear resistance. and wetting characteristics. The grit-planting setup allows a manufacturer to print grit in a customised pattern to suit the requirement of an application. The recommended coating enhances the durability of the bond, thus adding life to the developed tools. The joint strength and wear-resistant characteristics of the bonds of these tools are superior to those of their commercial counterparts. The technology can produce new-generation tools with versatile geometries.

ISRO Cryogenic Engine Tested Successfully

ISRO carried out a hot test of its upgraded CE-20 cryogenic engine on 9 November to achieve a thrust of 21.8 tonnes, an increase from 19 tonnes. This enables India's heaviest launcher LVM3 to lift heavier payloads. The higher thrust is obtained by increasing the quantity of fuel being stored in the tanks and by increasing the rate of flow of fuel the engine. The major to modification carried out on this test was the introduction of a Thrust Control Valve (TCV) for thrust control. In addition to this 3D-printed liquid oxygen and liquid hydrogen turbine and exhaust casings were used for the first time.

Technique for Efficient Fabrication of Low-cost LCD Devices

A team of scientists from the Centre for Nano and Soft Matter (CeNS), Bengaluru Sciences conceptualized and implemented a novel way of employing 2D materials to overcome the drawbacks of current methods. Using h-BN nanoflakes as the specific material, the group employed a procedure called deposition solution-processed technique and found it to be effective in getting the LC alignment over a much larger area. They also found the resultant crystals to be quite robust with no evidence of decay in LC orientation over several months. It was noted that the method demonstrating a non-conventional and contact-free route for getting unidirectional alignment of LC, is also much simpler, scalable, flexible for adaptation, and cost-effective.

Gene Editing in Temperature Sensitive Organisms, Plants and Crops

Inorder to advance CRISPR-Cas9 platform into the forefront of biomedical analytical and biotechnology, scientists of Raman Research Institute (RRI), have explored temperature-dependent binding and release of cleaved products by the Cas9 enzyme. The team demonstrated that the Cas9 enzymes strongly bind to the target at very low temperatures and remains bound to the cleaved DNA products even after the enzyme has done job. its Subsequently, the bound products were released in a controlled fashion using high temperature or chemical denaturants (that make proteins and DNA lose their 3dimensional structure and become non-functional). The research expands possible application of the Cas9-based genetic toolbox to a previously unexplored temperature range that would be compatible with long-term storage of biological samples. Their observations on high efficiency of Cas9 binding to target at very low temperatures also provide opportunities to edit genomes of the explored organisms called less cryophiles with an optimal growth temperature of 15° C. The results on Cas9-DNA binding and release mechanics will provide valuable insights for developing temperatureapplications of dependent the CRISPR-Cas9 technology. It also builds a quantitative understanding of the product release mechanism of this enzyme system.

Organic Semiconductorbased Acidity Tester

Scientists at the Indian Institute of Science Education and Research (IISER-TVM) Thiruvananthapuram have developed organic an semiconductor-based device that can be used to design disposable, flexible pH meters to test the full-scale acidity and alkalinity of substances. It requires only a drop of the fluid whose pH needs to be measured accurately in a few milliseconds without the need of calibration. The pH sensor uses an organic thin film as the sensing layer made of a semiconducting polymer called P3HT (or poly(3-hexylthiophene-2,5-diyl)). The analyte drop is placed on the P3HT film channel between the source and drain and used as the 'gate dielectric' to measure the pH value from the change of threshold drain voltage and current modulation. The team tested their device and found that it effectively senses pH values ranging from 3 to 12 within a few milliseconds. The device needs no calibration, has a stable performance for 5 minutes and can be used as a single-use, rapid pH meter. The organic ISFET pH sensor can be used to sense the acidity of bodily fluids and may be used to fabricate wearable acidity sensors. The absence of calibrating the pH sensor means that it can be used to make hand-held, disposable pH meters that farmers can use to check the acidity of their soil for optimum harvest.

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India holds a fair advantage in production and conversion costs in steel and alumina. Its strategic location enables export opportunities to develop as well as fast-developing Asian markets. As of FY22, the number of reporting mines in India were estimated at 1,425, of which reporting mines for metallic minerals were estimated at 525 and non-metallic minerals at 720.

Minerals are precious natural resources that serve as essential raw materials for fundamental industries, so the growth of the mining industry is essential for the overall industrial development of a nation. The vast resources of numerous metallic and nonmetallic minerals that India is with endowed serve as а foundation for the expansion and advancement of the nation's mining industry. India is largely self-sufficient in metallic minerals including bauxite, chromites, iron ore, and lignite as well as mineral coal and lignite. fuels like

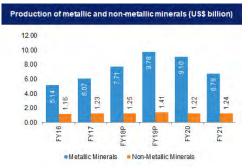
The industry has the potential to significantly impact GDP growth, foreign exchange earnings, and give end-use industries like building, infrastructure. electricity, automotive, and among others, a competitive edge bv obtaining essential raw materials at reasonable rates. Rise in infrastructure development automotive and production are driving growth. Power and cement industries are also aiding growth for the sector. Demand for iron and steel is set to continue given the strong growth expectations for the residential and commercial building industry.

India ranks fourth globally in terms of iron ore production. Production of iron ore in FY21 stood at 204.48 million tonnes. From April 2021- January 2022, iron ore production in India stood at 204 million tonnes (MT).

Metal and Mining

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In FY20, India had a total number of 878 steel plants producing crude steel. India's crude steel production stood at 120 MT in FY22. The steel production in India is projected to increase by 18% to reach 120 million tonnes (MT) by FY22. In Q3 FY22, production of hot metal, crude steel and saleable steel by SAIL stood at 1.55 MT, 1.44 MT and 1.46 MT, respectively.



Combined Aluminium production (primary and secondary) in India stood at 4.1 MT per annum in FY21 becoming the 2nd largest in the world. Aluminium production stood at 3,285,186 tonnes between April 2020 and January 2021.

The Government of India has also helped in the development of the metals and mining sector in India by launching key policy initiatives. The National Mineral Policy, which was approved by the Government in February 2019, has ensured improved regulation and

enforcement, more transparency, balanced social and economic growth, and sustainable mining techniques. The policy grants industry status to the mining activities and boost private sector funding. Additionally, it aims to facilitate the merger and acquisition of mining companies, entice private sector involvement in exploration, and permit the transfer of mineral corridors created specifically for metals and mining leases.

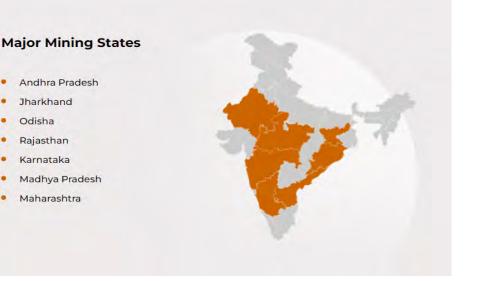
Latest Developments:

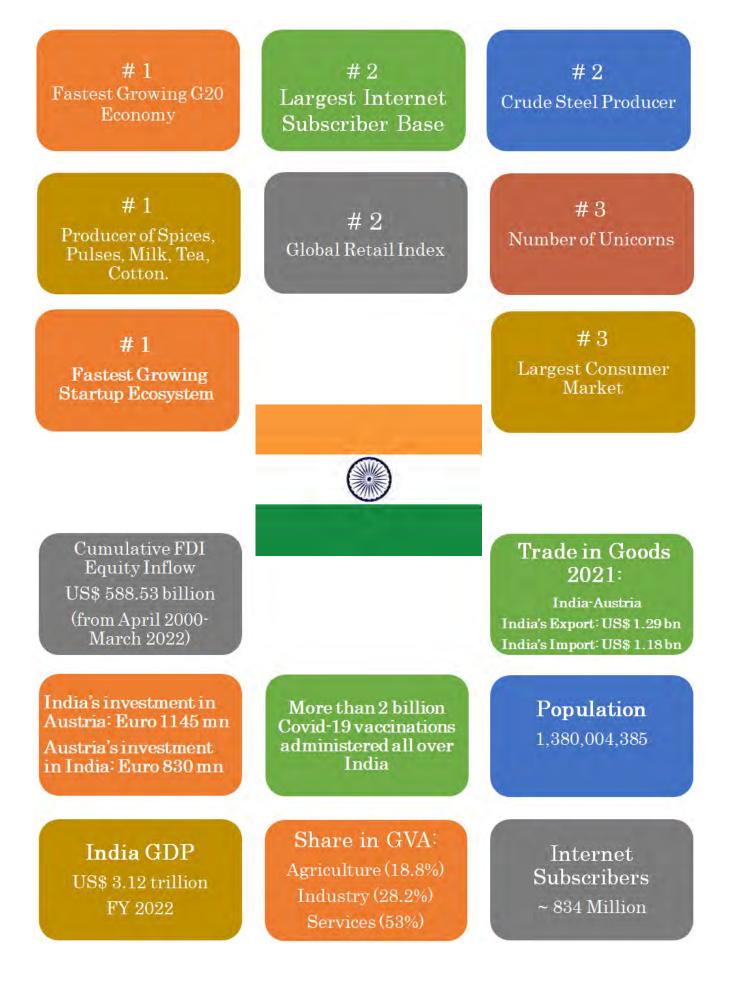
- The index of mineral production of mining and quarrying sector for the month of June 2022 stood at 113.4.

- From April 2000-March 2022, FDI inflows in the metallurgical industry stood at (US \$ 17.02 billion), followed by the mining (US\$ 3.24 billion), diamond & gold ornaments (US\$ 1.21 billion) and coal production (US\$ 27.73 million) industries.

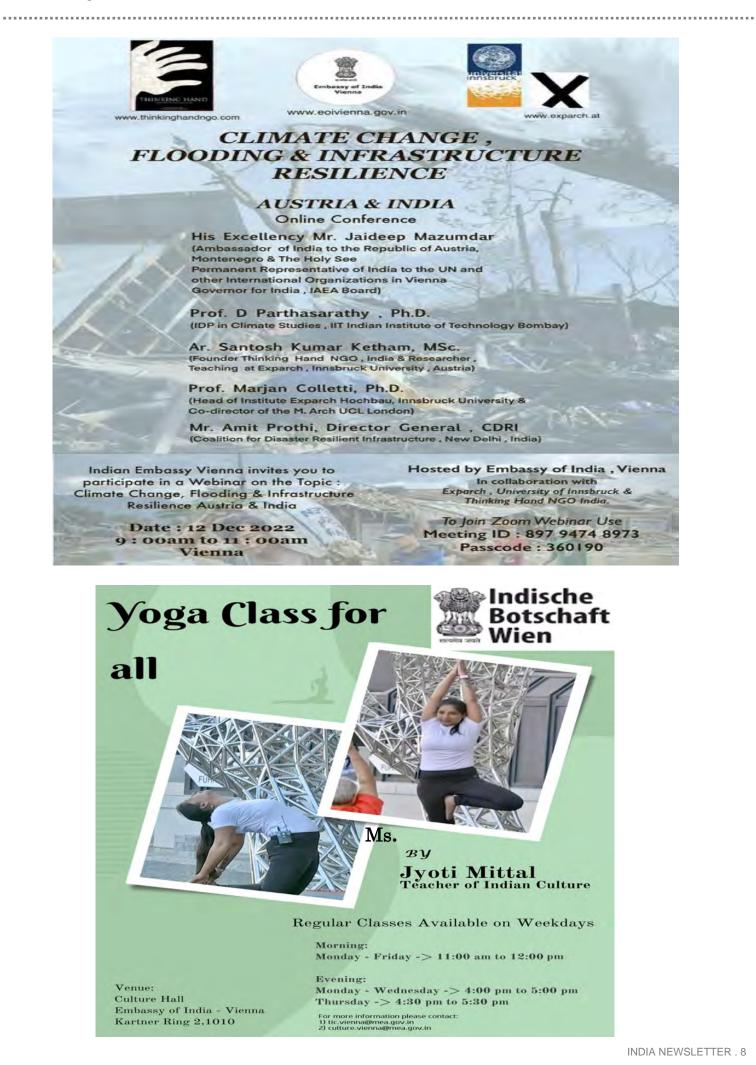
- GVA from mining and quarrying stood at US\$ 43.3 billion in FY22, as per the advance estimates.

- NMDC's cumulative iron ore production (until May 2022) stood at 6.35 MT as compared to 5.91 MT (until May 2021).





Embassy Activities



Sikkim

Sikkim situated in the Eastern Himalayan region with an area of 7,096 sq km and altitude ranging from 300m to 8,586m above sea level is a wonderland blessed with natural abundance from icy cold deserts, flowering alpine meadows, to lush green forests and emerald mountain lakes. The crowning glory of this wonderland undoubtedly is the Khangchendzonga magnificent Mt. (8,586m), the third highest mountain of the world. The mountain is not merely a physical entity but the abode of guardian deity whose benign watchfulness ensures peace and prosperity of the land.

State's & UT's of India

It is possible to move from the subtropical heat of the lower valleys to the cold of the rugged mountain slopes that ascend up to the areas of perpetual snow in a matter of few hours. Such a steep rise in altitude over a very short distance, allows the land to host a robust natural heritage and wealth. The snow-capped mountain ranges, lush thick forests, plunging mountain valleys flush with rich flora and fauna, picture perfect villages, groves of rhododendrons, hot -springs, waterfalls, perennial streams and grand rivers Teesta and Rangit all contribute to shape Sikkim as a magical, mystical wonderland.

Keeping in tune with the natural diversity, Sikkim has an equally rich and diverse demographic structure with myriad of communities and religions and intricately knit colourful cultures, the basic connecting factor being the warm, nature welcoming of the people everywhere. The phrase "Atithi Devo Bhava" finds its true meaning in Sikkim. Diverse rituals, songs, dances, traditional dresses, folklores and legends fill up the cultural canvas of the State.

The chimes of bells in the temples and the flutter of prayer flags in the monasteries create a feeling of righteousness and healing of spirit and soul. Feel rejuvenated, energised and spirituality enlightened in this holy land.



Bulbuley Dara, Sikkim



Rinchenpong Monastery, Sikkim



Buddha Park, Tathagata Tsal, Sikkim

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India Events





H.E. Ambassador Jaideep Mazumder attended and delivered the inaugural address in the International Symposium on 'Yoga, Ayurveda and Meditation for Active and Healthy Aging' organized by Medical University of Graz from 14-16 November 2022.

INTERESTED IN VISITING A TRADE SHOW IN INDIA?

In case your company is interested in visiting a tradeshow/B2B event in India, be it one listed here or another one that came to your attention, get in contact with us via **comm1.vienna@mea.gov.in** to get more information about possible assistance/subsidies.





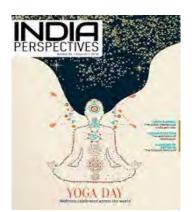


The Embassy of India is organizing Yoga workshops for various academic and business organisations. The Workshop includes exercises suitable to be performed by anyone in a space-constrained environment of own office. A brief session on Yoga Asanas (physical exercises), Pranayam (breathing exercises) and Meditation is conducted. The workshop is of about 75 minutes and the medium of the language is english. For further queries please write at comm1.vienna@mea.gov.in or call + 43 (1) 5058666.

The Government of India has extended e-Tourist Visa (e-TV) scheme to the citizens of Austria w.e.f. 26th February 2016. This facility is also available to the citizens of Montenegro and the Vatican City. The Indian e-Visa is an electronic travel permit that makes acquiring a visa to visit India easier. After filling out an online form with the traveler's personal information and passport information, the Indian electronic visa can be received fast.



Queries related to e-TV; for any assistance call 24x7 Visa support center at +91-11-24300666 or send email to indian-evisa@gov.in or visit www.indianvisaonline.gov.in



India Perspectives, the flagship magazine of the Ministry of External Affairs. The magazine is printed in 16 languages and goes to 170 countries, disseminating interesting information about India's rich culture and tradition. For a copy of the magazine, mail us at: poip@mea.gov.in or visit www.indiaperspectives.gov.in

The Central Board of Indirect Taxes and Customs (erstwhile Central Board of Excise & Customs) launched a mobile app "Indian Customs -Guide to Travelers" for dissemination of information about the Customs Baggage Rule, 2016. The application has been launched to inform traders, exporters and importers about the Customs Baggage Rules 2016. It has been developed by Bengaluru Customs and is available on Android Play store, Apple Store and Windows store.





The Embassy's library is opened daily from 10 am to 1 pm without appointment. Our collection contains more than 3000 titles in dozens of categories.

For appointments outside the opening hours or other inquiries, please contact us at info.vienna@mea.gov.in or call on 015058666 - 44.

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wing under : comm1.vienna@mea.gov.in or 01 505 8666

STUDENTS WELFARE OFFICER

•• Mr. Rishi Tripathi, Second Secretary in this Embassy has been designated as Officer to look after welfare of Indian Students in Austria and Montenegro.

-- His contact details are: 0043 1 505 866 and ccl.vienna@mea.gov.in

YOGA CLASSES

-- The Embassy has started Yoga and Dance Classes in multipurpose hall at Embassy of India,

Vienna. To register please send an email to our Cultural Wing at culture.vienna@mea.gov.in

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सत्यमेव जयते Ministry of External Affairs Government of India

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