

Decoding The Hindu Article

PM announces visas for AYUSH therapy ⁺

Modi says traditional medicine practices could attract people from across world

MAHESH LANGA
AHMEDABAD

Prime Minister Narendra Modi on Wednesday announced that a special visa category would be created soon for those who want to travel to the country to avail themselves of AYUSH therapies.

"Heal in India", he said, could become a big brand of this decade and wellness centres based on Ayurveda, Unani, Siddha and such traditional practices could be very popular and attract people from across the world. Traditional medicine helped Kerala promote tourism, and similarly, every State should



Prime Minister Narendra Modi with his Mauritius counterpart Pravind Jugnauth and WHO Director-General Tedros Ghebreyesus in Gandhinagar on Wednesday. • VIJAY SONEJI

promote it, as this power was there in the entire country in every corner.

Mr. Modi was inaugurating a Global AYUSH Investment and Innovation Summit in Gandhinagar in the

presence of Director-General of WHO Tedros Ghebreyesus and Prime Minister of Mauritius Pravind Kumar Jugnauth. He held a bilateral meeting with Mr. Jugnauth on the sidelines of the sum-

mit. Mr. Modi said 'AYUSH mark', which gives authenticity to quality AYUSH products made in the country, would help promote traditional medicine industry.

Talking about the rising popularity of traditional medicines and wellness products, Mr. Modi said the possibilities of investment and innovation in the field of AYUSH (Ayurveda, Yoga, Unani, Siddha and Homeopathy) were unlimited. The sector was less than \$3 billion in 2014, which had now crossed \$18 billion.

(With PTI inputs)

CONTINUED ON PAGE 8

Vocabulary

Word	English Meaning	Hindi Meaning
Bottleneck	(Noun): a situation that causes delay in a process or system. .	टेंटी
Resilient	(Adjective): able to withstand or recover quickly from difficult conditions.	स्थिति-स्थापक

Static News

Ayushman Bharat is National Health Protection Scheme, which will cover over 10 crore poor and vulnerable families (approximately 50 crore beneficiaries) providing coverage upto 5 lakh rupees per family per year for secondary and tertiary care hospitalization. Ayushman Bharat - National Health Protection Mission will subsume the on-going centrally sponsored schemes - Rashtriya Swasthya Bima Yojana (RSBY) and the Senior Citizen Health Insurance Scheme (SCHIS).

In partnership with NITI Aayog, a robust, modular, scalable and interoperable IT platform will be made operational which will entail a paperless, cashless transaction.

Grammar

The type 2 conditional refers to an unlikely or hypothetical condition and its probable result. These sentences are not based on the actual situation. In type 2 conditional sentences, the time is now or any time and the situation is hypothetical.

Examples: If the weather wasn't so bad, we would go to the park. (But the weather is bad so we can't go.)

Blue Represents the
Vocabulary

Yellow Represents
the Static News

Red Represents the
Grammar

of 13

Decoding The Hindu Article

IISc, ISRO find way to make bricks from Martian soil

SPECIAL CORRESPONDENT
BENGALURU

In Ridley Scott's 2015 sci-fi film, *The Martian*, botanist Mark Watney, who is trapped on the red planet, creates a garden using local soil and the crew's bio-waste, as well as water from rocket fuel. While vegetable gardens on Mars are still a distant dream, building houses may not be a problem – should humans colonise the planet.

Researchers from the Indian Space Research Organisation (ISRO) and the Indian Institute of Science (IISc) have developed a way to make bricks from Martian soil with



The 'space bricks' developed by ISRO and IISc researchers.

the help of bacteria and urea. These 'space bricks' can be used to construct building-like structures on Mars that could facilitate human settlement on the red planet, said IISc in a press release.

Their research was published in the peer-reviewed open access scientific journal, *PLOSOne*.

The team first made the slurry by mixing Martian soil with guar gum, a bacterium called *Sporosarcina pasteurii*, urea and nickel chloride (NiCl₂). "This slurry can be poured into moulds of any desired shape, and over a few days the bacteria convert the urea into crystals of calcium carbonate. These crystals, along with biopolymers secreted by the microbes, act as cement holding the soil particles together," stated the release.

This method ensures that the bricks are less porous, which was a problem with other methods used to make

Martian bricks.

"The bacteria seep deep into the pore spaces, using their own proteins to bind the particles together, decreasing porosity and leading to stronger bricks," said Alope Kumar, associate professor, Department of Mechanical Engineering at IISc, and one of the senior authors of the paper.

The slurry-casting method was developed with the help of Koushik Viswanathan, assistant professor in the Department of Mechanical Engineering, IISc.

In the past, the team had made bricks out of lunar soil using a similar method. However, the previous method could only produce cylindrical bricks, while the current slurry-casting method can also produce bricks of complex shapes, the release stated.

Another challenge was the composition of Martian soil, which has a lot of iron that causes toxicity to organisms. "In the beginning, our bacteria did not grow at all. Adding nickel chloride was the key step in making the soil hospitable to the bacteria," said Kumar.

The team is now gearing up to investigate how the atmosphere in Mars combined with low gravity affects the 'space bricks'. Martian atmosphere is a hundred times thinner than that of Earth's, and contains over 95% carbon dioxide, which may significantly affect bacterial growth, stated the release. To recreate conditions on the red planet, researchers have constructed a device-MARS (Martian Atmosphere Simulator).



Vocabulary

Word	English Meaning	Hindi Meaning
Evoked	(Verb): bring or recall (a feeling, memory, or image) to the conscious mind.	पैदा की

Static News

The Indian Institute of Science is a public, deemed, research university for higher education and research in science, engineering, design, and management. It is located in Bengaluru, in the Indian state of Karnataka.

The institute was established in 1909 with active support from Jamsetji Tata.

The Indian Space Research Organisation is the national space agency of India, headquartered in Bengaluru. It operates under the Department of Space (DOS) which is directly overseen by the Prime Minister of India.

Formed 15 August 1969, Chairman: Sreedhara Panicker Somanath

PLOS One is a peer-reviewed open access scientific journal published by the Public Library of Science since 2006. The journal covers primary research from any discipline within science and medicine

Grammar

Gerunds are words that are formed with verbs but act as nouns. They're very easy to spot, since every gerund is a verb with "ing" tacked to its tail. There are no exceptions to this rule.

EXAMPLES:

Acting is fun. (The gerund is the subject of the sentence.)



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Decoding The Hindu Article

Judges must give reasons for bail decisions, says SC

Cryptic orders have no place in the judicial system, it says

KRISHNADAS RAJAGOPAL
NEW DELHI

Judges are duty-bound to give reasons for granting or denying bail, especially in cases involving serious offences and hardened criminals, the Supreme Court has held.

Cryptic bail orders without giving any reasons have no place in the judicial system, it said on Tuesday.

"There is a recent trend of passing such orders granting or refusing to grant bail, where the courts make a general observation that 'the facts and the circumstances' have been considered. No specific reasons are indicated which precipitated the passing of the order by the court," a Bench led by Chief Justice of India N.V. Ramana observed in a judgment.

The case concerned the grant of bail by the Rajasthan High Court to a man ac-



cused of raping his minor niece for years. The man is an "infamous criminal" with 20 pending criminal cases to his name, involving offences like murder, attempt to murder, kidnapping, dacoity, etc.

Fundamental tenets

Setting aside the bail order, Chief Justice Ramana, who wrote the verdict, observed that "judges are duty-bound to explain the basis on which

they have arrived at a conclusion... Reasoning is the life blood of the judicial system. That every order must be reasoned is one of the fundamental tenets of our system. An unreasoned order suffers the vice of arbitrariness".

Bail revoked

"There is need to indicate reasons for *prima facie* concluding why bail was being granted particularly where the accused is charged of having committed a serious offence. Any order devoid of such reasons would suffer from non-application of mind..." the judgment noted.

The judgment said the High Court erred in granting bail to the accused in a mechanical manner without any reasoning. The top court ordered the accused to surrender in a week.

Vocabulary

Word	English Meaning	Hindi Meaning
Ambit	(Noun): the scope, extent, or bounds of something.	सीमा
Surety	(Noun): a person who takes responsibility for another's performance of an undertaking, for example their appearing in court or paying a debt.	ज़मानत

Static News

Nuthalapati Venkata Ramana (born 27 August 1957) is an Indian judge who is serving as the 48th and current chief justice of India.

There are a total of 48 chief justices of India that have served since the establishment of the Supreme Court of India in 1950, which superseded the Federal Court of India. The Federal Court of India came into being on 1 October 1937. The seat of the court was the Chamber of Princes in the Parliament building in Delhi. It began with a chief justice and two puisne judges. The first chief justice was Sir Maurice Gwyer and the other two judges were Sir S. M. Sulaiman and M. R. Jayakar. It functioned until the establishment of the Supreme Court of India on 28 January 1950.

Grammar

The infinitive form of a verb is the verb in its basic form. An infinitive is formed from a verb but doesn't act as a verb. The infinitive form of a verb is usually (but not always) preceded by "to" (e.g., "to run," "to dance," "to think").

EXAMPLES: I need to run every day.

(The infinitive form with the word "to" is called the "full infinitive" or "to-infinitive.")



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India's Q1 imports lift trade with China to a record high

Jan.-March bilateral trade climbs 15% to \$31.96 billion; India's exports slump 26%

ANANTH KRISHNAN
HONG KONG

A sharp increase in India's imports of Chinese goods in the first quarter of 2022 lifted bilateral trade by 15% to a record \$31.96 billion, trade data released by China on Wednesday show.

Imports surged 28% from the year-earlier period to \$27.69 billion. India's exports, however, slumped 26% to \$4.87 billion.

In 2021, India's trade with China surpassed the \$100 billion mark for the first time to reach \$125 billion, driven by demand for electronic products, chemicals and auto components. India's imports accounted for a bulk of



Insatiable demand: Imports from China surged 28% in the January-March quarter to \$27.69 billion. •AFP

the trade, reaching \$97.5 billion, while exports crossed \$20 billion for the first time.

Compared with the pre-pandemic levels in 2019, first-quarter imports jumped 54%, while exports rose 9%.

The 15% increase in India-China trade was among the highest for China's major trading partners.

Overall, China's exports climbed 13.4%, the **General Administration of Customs**

(GAC) said, while imports rose 7.5%. Trade rose 9.9% with the U.S. and that with the EU grew by 10.2%.

Economists are concerned about the possible impact that the current COVID-19 outbreaks and lockdowns, particularly in Shanghai, may have on global supply chains as well as on China's trade performance in the current April-June quarter.

China faces "multiple challenges and risks" as well as "sudden internal and external factors" that would pose a challenge for the country's trade performance in 2022, said Li Kuiwen, spokesperson for the GAC.

Vocabulary

Word	English Meaning	Hindi Meaning
Slumped	(verb): fail or decline substantially.	झुके

Static News

The total trade between China and India in 2021 stood at USD 125.66 billion, up 43.3 per cent from 2020, state-run Global Times reported, quoting data from the General Administration of Customs.

Grammar

A participle is a nonfinite verb form that has some of the characteristics and functions of both verbs and adjectives. Read the following sentence:

Hearing a loud noise, the boy woke up.

Here the word hearing qualifies the noun boy as an adjective does. It is formed from the verb hear and has an object – noise. The word hearing, therefore, has the properties of a verb and an adjective and is called a participle.



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Decoding The Hindu Article

Automobile sales slid 6% in 2021-22, says SIAM

'Chip availability immediate challenge'

SPECIAL CORRESPONDENT
NEW DELHI

Impacted by supply-side challenges, total automobile **dispatches** during the last financial year fell 6%, dragged down by lower sales of two-wheelers and entry-level cars amid rising vehicle and fuel costs, according to the Society of Indian Automobile Manufacturers (SIAM).

As per the data released by the industry body, two-wheeler sales fell by 11% to 1,34,66,412 units.

PV sales rise

Passenger vehicle sales during 2021-22 stood at 30,69,499 units, up 13%



Sales of all four segments of the auto industry are below even the 2018-19 level

from 27,11,457 units a year earlier, mainly driven by a 40% growth in sales of utility vehicles. In March 2022, however, the wholesales declined 4% to 2,79,501 units.

"Despite some recovery from a low base, sales of all four segments of the auto industry are below even the 2018-19 level," Kenichi Ayukawa, President, SIAM said.

He added that the immediate challenge for the industry in most segments is semiconductor availability.

Vocabulary

Word	English Meaning	Hindi Meaning
Nudge	(Verb): prod (someone) gently with one's elbow in order to attract attention.	कुहनी से हलका धक्का
Havoc	(Noun): great confusion or disorder.	तबाही
Insurmountable	(Adjective): too great to be overcome.	अति कठिन
Persuasion	(Noun): the action or process of persuading someone or of being persuaded to do or believe something.	प्रोत्साहन

Static News

The Society of Indian Automobile Manufacturers (SIAM) is a not for profit apex national body representing all major vehicle and vehicular engine manufacturers in India. Mr Vinod Aggarwal is the vice-president and Mr Kenichi Ayukawa is the president.

Which country is the largest producer of semiconductors?
China leads the production of semiconductor chips in the world, according to data from the United Nations. The electronics value chain, which includes consumer electronics and ICT, has been regionalized over the years, and China has become a major global production center for microelectronics.

Grammar

Stative verbs are verbs that express a state rather than an action. They usually relate to thoughts, emotions, relationships, senses, states of being and measurements. The stative verbs are all expressing a state: A state of doubting, a state of believing, a state of wanting. These states of being are often temporary.

EXAMPLE:

The doctor disagrees with your analysis.

(Disagree is a stative verb here, as it describes the doctor's state of being – disagreement.)

Decoding The Hindu Article

Australia beats India, takes group honours

JR. DAVIS CUP

KAMESH SRINIVASAN
NEW DELHI

Top seed Australia notched a 2-1 victory against India to top group-A in the Asia-Oceania Junior Davis Cup under-16 boys' tennis tournament at the DLTA Complex on Wednesday.

Bushan Haobam and Rushil Khosla failed to win a set in singles against Charlie Camus and Hayden Jones, but combined well to inspire confidence with a 7-5, 3-6, [10-3] victory in the doubles.

Captain Sajid Lodi pointed out that the singles matches were a lot closer than what the scores may suggest, and that the team was capable of making pro-



In good touch: Hayden Jones who came up trumps against Rushil Khosla. • KAMESH SRINIVASAN

gress in the knockout stage in pursuit of one of the three qualification spots for the World Group.

In the quarterfinals, India will play the group-B topper Iran.

Australia will play Singa-

pore. In the two other quarterfinals, it will be Japan against Vietnam and Korea versus Kazakhstan.

With its second player Kim Se Hyun down with an upset stomach, Korea gave a walkover in the second sin-

gles and the doubles, after winning the first rubber through Kim Min Ho.

The results (league):

Group-A: Australia bt India 2-1 (Charlie Camus bt Bushan Haobam 6-3, 6-3; Hayden Jones bt Rushil Khosla 6-1, 7-6(4); Hayden & Hugh Winter lost to Bushan & Rushil 5-7, 6-3, [3-10]).

Pakistan bt Indonesia 2-1 (Bilal Asim bt Alhdito Kurniawan 6-2, 6-3; Huzaifa Khan bt Muhammad Djufri 6-3, 6-3; Hamid Israr & Huzaifa lost to Jaifal Kannahaya & Alhdito Kurniawan 6-3, 2-6, [5-10]).

Group-B:

Iran bt Singapore 2-1; Malaysia bt Syria 3-0.

Group-C: Kazakhstan bt Thailand 2-1; Vietnam bt Sri Lanka 2-1.

Group-D: Japan bt Hong Kong 3-0; Uzbekistan bt Korea 2-1.

Vocabulary

Word	English Meaning	Hindi Meaning
Avert	(Verb): prevent or ward off (an undesirable occurrence).	टालना
Plunging	(Adjective): denoting a very low-cut neckline on a woman's garment.	जल्दी से आगे बढ़नेवाला
Impasse	(Noun): a situation in which no progress is possible, especially because of disagreement; a deadlock.	गतिरोध

Static News

Competitions were launched by the ITF in 1985 as the 16-and-under World Youth Cup, and rebranded in 2002 under the current names.

Format: Each year nations enter regional qualifying events with the winners progressing to the Finals, where they compete to be crowned champion.

The senior equivalents of the Junior Davis Cup and Junior Billie Jean King Cup are the Davis Cup and Billie Jean King Cup, respectively.

Grammar

A transitive verb is one whose action must be used in relation to an object, also called as direct object, and when using the verb, it only makes sense if the verb is transferring action upon an object. That means the verb doesn't sound good or work on its own without an object. In other words, the action of a transitive verb is done to someone or something.

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