

Mains Topics

India and New Zealand FTA

Context

India and New Zealand have concluded a comprehensive Free Trade Agreement.

Salient Features of the FTA

- **Zero-duty market access:** Customs duties eliminated on **100% of Indian exports**, boosting export competitiveness.
- **Healthcare cooperation:** Inclusion of New Zealand's **first-ever annex on Health and Traditional Medicine Services**.
- **Agricultural integration:** Launch of an **Agricultural Productivity Partnership** to enhance farm productivity and link Indian farmers to global value chains.

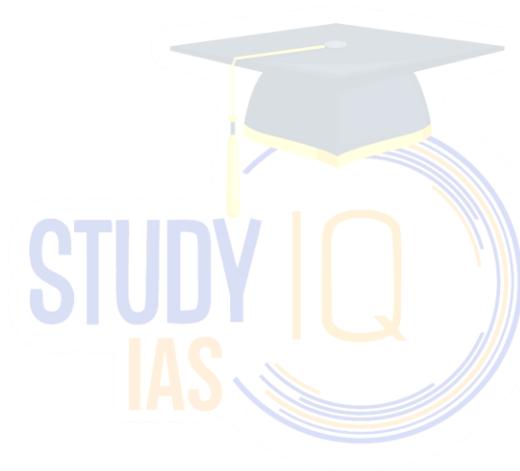


Benefits of India and New Zealand FTA

Area	Key Benefits for India
Market Access (Goods)	Zero-duty access on 100% of New Zealand tariff lines (8,284) from entry into force; elimination of ~10% tariffs on ~450 Indian export lines; average applied tariff of 2.2% reduced to zero
Services Trade	New Zealand's best-ever offer : commitments in 118 services sectors ; MFN treatment in 139 sectors
Health & AYUSH	First-ever Health & Traditional Medicine Annex ; global promotion of AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha, Sowa-Rigpa, Homeopathy); boost to medical value travel and wellness services
Education & Student Mobility	Students allowed 20 hrs/week work during study; protected against future policy changes; extended post-study work visas (STEM Bachelor: 3 yrs; Master's: up to 3 yrs; Doctorate: up to 4 yrs)
Professional Mobility	5,000 skilled visas (up to 3 years) for Indians in AYUSH, Yoga, Indian cuisine, music, IT, engineering, healthcare, education, construction
Working Holiday Scheme	1,000 Indian youth annually eligible for multiple-entry stays up to 12 months
Investment	USD 20 billion FDI commitment from New Zealand over 15 years
Regulatory Facilitation	Faster approvals for pharmaceuticals & medical devices ; recognition of inspections from US, EU, UK, Canada regulators

Intellectual Property	Binding commitment to amend laws within 18 months for EU-level GI protection for Indian products
Customs & Trade Facilitation	Advance rulings, e-documentation , clearance within 48 hours (24 hours for perishables)

Source: [PIB](#)



Child Marriages in India

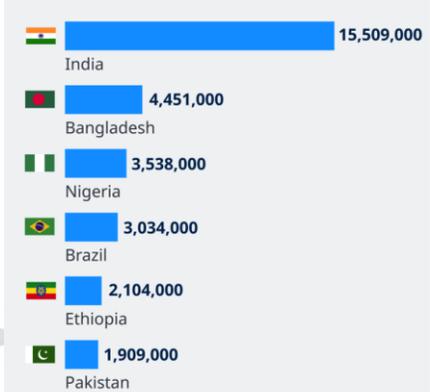
Context

The Union government marked the first anniversary of its Bal Vivah Mukht Bharat Abhiyan.

Facts Related to Child Marriages in India

- **Decline in Child Marriages:** Child marriage rates in India **halved from 47.4% to 23.3% between 2006 and 2019-21**, following the enactment of the **Prevention of Child Marriage Act, 2006**.
 - Over **2 lakh child marriages** were prevented in the past year.
- **Prevalence of Child Marriage in India:** **One in five girls** in India is still married before turning 18.
- **Improvement in Sex Ratio at Birth:** 918 in 2014-15 to 930 in 2023-24.
- **States with High Burden of Child Marriages:**
 - **West Bengal (41.6%), Bihar (40.8%), Tripura (40.1%), Rajasthan, Jharkhand, Assam, and Andhra Pradesh.**

Countries with the highest number of child marriages*



UNICEF Report (2023)

- **One in three** of the world's child brides live in India.
- Over half of the girls and women in India who married in childhood live in five states: Uttar Pradesh (highest), Bihar, West Bengal, Maharashtra and Madhya Pradesh.
- The majority of young women who married in childhood gave birth as adolescents.

Key Reasons Behind Child Marriage

- **Poverty & economic insecurity:** Families marry off children early to reduce household expenses and perceived economic burden.
- **Gender inequality & patriarchy:** Girls are viewed as dependents, with marriage seen as their primary role.
- **Social norms & traditions:** Deep-rooted customs and community pressure normalise early marriage.
- **Lack of education:** Low school enrolment and high dropout rates, especially among girls, increase vulnerability.
- **Safety concerns:** Parents marry daughters early to avoid sexual harassment, trafficking, or social stigma.
- **Weak law enforcement:** Poor implementation of the Prohibition of Child Marriage Act and low conviction rates.
- **Crisis situations:** Disasters, pandemics, migration, and conflicts intensify economic stress and early marriages.

What are the impacts?

- **On Health:**

- **High maternal mortality and morbidity** due to early pregnancies.
- **Poor child health outcomes**, including low birth weight and malnutrition.
- **On Education & Economy:**
 - **School dropouts**, especially among girls, limiting skill development.
 - **Intergenerational poverty**, as early marriage restricts earning potential.
- **On Rights & Well-being:**
 - **Increased domestic violence and abuse** due to power imbalance.
 - **Loss of agency and decision-making capacity** for young girls.
- **On Society:**
 - **High population growth** due to early and repeated pregnancies.
 - **Hampered human capital development**, affecting national growth.

Key Measures to Address Child Marriage

- **Legal framework:** The *Prohibition of Child Marriage Act, 2006* mandates States to appoint **Child Marriage Prohibition Officers** for prevention, monitoring, and enforcement.
- **Government schemes:** Initiatives such as **Beti Bachao Beti Padhao (BBBP)** promote girls' education, awareness, and empowerment to reduce early marriages.
- **Grassroots initiatives:** The **Surajpur Model (Chhattisgarh)** demonstrated community-led action, with **75 Panchayats** declared '**Child Marriage-Free**' through local vigilance and social mobilisation.
- **Global commitments:** India is a signatory to the **United Nations Convention on the Rights of the Child (UNCRC)** and has committed to achieving **SDG 5**, which aims to eliminate child, early, and forced marriage by 2030.

Source: [The Hindu](#)

Prelims Topics

Micrometeoroids and Orbital Debris (MMOD)

Context

A piece of **space debris** recently struck the Chinese crewed spacecraft **Shenzhou-20**, has renewed global concern over **Micrometeoroids and Orbital Debris (MMOD)**.

About Micrometeoroids and Orbital Debris (MMOD)

- **Micrometeoroids:**
 - Naturally occurring, extremely small particles in space, typically **micrometres** to **~2 mm** in size.
 - Mostly originate from **asteroid collisions** in the asteroid belt; a smaller share comes from **comets**.
 - Travel at **very high velocities (11–72 km/s)**, making even tiny particles highly destructive.
 - **Micrometeoroids** exist throughout space but are slightly denser near Earth due to gravitational attraction.
- **Orbital Debris (Space Junk):**
 - Human-made objects in Earth's orbit that no longer serve any purpose.
 - Includes defunct satellites, spent rocket stages, fragments from collisions and **anti-satellite (ASAT) tests**.
 - **Orbital debris** is concentrated mainly in **Low Earth Orbit (200–2,000 km)**.

What are the risks posed by MMOD?

- **Catastrophic damage risk:** Even millimetre-sized particles can disable satellites due to extreme kinetic energy.

- **Threat to astronauts:** Penetration of crew modules or life-support systems can be fatal.
- **Mission disruption:** Damage to sensors, solar panels, and communication systems reduces mission life.
- **Kessler Syndrome:** A runaway collision cascade where debris generates more debris, potentially making orbits unusable.
- **Economic & strategic risk:** Loss of satellites affects navigation, communication, weather forecasting, and defence.

Source: [The Hindu](#)

Anjadip Anti-Submarine Water Craft

Context

The Indian Navy has inducted Anjadip, the third of eight Anti-Submarine Warfare Shallow Water Crafts (ASW SWC).

About Anjadip

- **Named after: Anjadip Island**, off the coast of Karnataka.
- **Designed and Built Indigenously:** By Garden Reach Shipbuilders and Engineers (GRSE) under a **PPP model** with L&T Shipyard.
 - Over 80% indigenous content
- **Length:** ~77 metres.
- **Propulsion: Waterjets** (largest Indian naval warship to use waterjet propulsion).
- **Role:**
 - Anti-submarine warfare in shallow coastal waters
 - Coastal surveillance
 - Mine-laying operations
- **Legacy:** Continues the heritage of the earlier **INS Anjadip**, a **Petya-class corvette** decommissioned in 2003.

ASW SWC is a specialised class of Indian naval warships designed for littoral and shallow-water operations.

Primary purpose: Detect, track, and neutralise enemy submarines close to the coast.

Source: [The Hindu](#)

MAVEN Craft

Context

NASA's MAVEN (Mars Atmosphere and Volatile EvolutionN) spacecraft experienced a loss of signal with ground stations on Earth on December 6.

About MAVEN Spacecraft

- It is a **NASA Mars-orbiting mission** launched to study the **upper atmosphere, ionosphere, and solar wind interaction** of Mars.
- **Objective:** To understand **how Mars lost most of its atmosphere and water over time**, transforming from a warm, wet planet to a cold, arid one.
- **Launch vehicle:** Atlas V
- **Orbit type:** Highly elliptical orbit around Mars

Source: [The Hindu](#)

IUCN Species Survival Commission (SSC)

Context

Vivek Menon (founder of Wildlife Trust of India) becomes the first Asian chair of the IUCN Species Survival Commission.

About Species Survival Commission

- It is **one of the six expert commissions** of the **International Union for Conservation of Nature (IUCN)**.
- It comprises **more than 9,000 experts and scientists** from around the world.

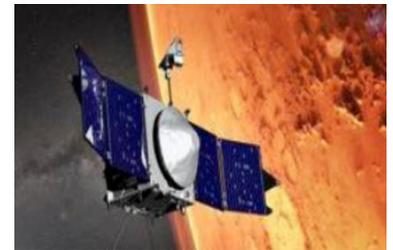
- The SSC advises the IUCN Secretariat on global biodiversity and species conservation matters.
- It plays a major role in:
 - Preparing and updating the **IUCN Red List of Threatened Species**.
 - **Coordinating specialist groups** on different species and ecosystems
 - Providing **scientific input for conservation policy and action**

Source: [Mongabay](#)

Rapid Financing Instrument (RFI) - IMF

Context

The International Monetary Fund (IMF) has approved \$ 206 million for Sri Lanka under the Rapid Financing Instrument (RFI) following the devastation caused by Cyclone Ditwah.



About Rapid Financing Instrument (RFI)

- It is an **emergency lending facility** of the **International Monetary Fund (IMF)**.
- **Purpose of RFI:** To support countries affected by **Natural disasters, Pandemics and health emergencies, Commodity price shocks, and Conflict, war, or sudden economic crises**.
- **Key Features:**
 - **Rapid disbursements:** Funds are released quickly, often in a



Species Survival Commission

single tranche.

- **Limited conditionality:** No requirement for a full-fledged economic reform programme.
 - Only basic policy commitments and safeguards.
- **Flexible use:** Can be used for **budget support**, health spending, imports, or stabilising the economy.
- **Applicable to all IMF members**, regardless of income level.

Source: [The Telegraph](#)

Ghost Pairing

Context

What is Ghost Pairing?

- A **new cyber fraud technique** that enables attackers to **take control of a WhatsApp account** without requiring the user's password or SIM card.
- **How the attack works:**
 - The scam **misuses WhatsApp's device-linking feature**.
 - Users are **tricked into approving a pairing request** that appears legitimate.
 - Attackers send **deceptive messages** such as *"Hi, check this photo"* to prompt user action.
- **Nature of the compromise:** Once pairing is approved, the attacker's device becomes a **hidden linked device**.

- The hacker gains **full access to chats, contacts, and account activity**, effectively hijacking the account.

Source: [Hindustan Times](#)

Kuttanad Wetland Agricultural System

Context

Kuttanad paddy fields globally recognised below-sea-level farming are under stress due to rising soil acidity and aluminium toxicity.

About Kuttanad Wetland Agricultural System (Kerala)

- A **unique agro-ecological system** comprising a **mosaic of interconnected landscapes**.
- **Three key components:**
 - **Wetlands:** Used for paddy cultivation and fish harvesting.
 - **Garden lands:** Support food crop plantations.
 - **Water bodies:** Utilised for inland fisheries and shell collection.
- **Unique feature:** The **only agricultural system in India** where **rice is cultivated below sea level**, on land reclaimed from **brackish deltaic swamps**.
- **Global recognition:** Designated as a **Globally Important Agricultural Heritage System (GIAHS)** by the **FAO**.

Source: [The Hindu](#)

Places in News

Great Indian Bustard



News?

About Great Indian Bustard

- **Distribution:** It is endemic to the Indian subcontinent, confined mostly to **Rajasthan and Gujarat**. Small population found in Maharashtra, Karnataka and Andhra Pradesh.
 - Desert National Park in Jaisalmer (Rajasthan) is known for population of Great Indian Bustard.
- **Features:**
 - **Habitat:** open grasslands, arid plains and scrub forests
 - Males have a distinctive black crown, a long neck, and a buff-coloured body with white underparts.
 - Females are generally smaller and lack the prominent black crown.
 - One of the heaviest flying birds, weighing between 10 to 15 kg.
 - It is primarily omnivorous. It feeds on insects like grasshoppers, beetles and sometimes even small rodents and reptiles. It also feeds on grass seeds.
 - Only less than 150 GIBs are left in the wild and almost exclusively restricted to India.
- **Conservation Status**
 - **IUCN status:** Critically Endangered
 - **Wildlife Protection Act, 1972:** Schedule I
 - **CITES:** Appendix 1
 - Covered under species recovery program.
- **Threats:**
 - Power lines (disturbs visibility)
 - Free-ranging dogs
 - Pesticides in farmlands
 - Loss of grassland and nesting sites
- **Steps taken to conserve GIB:**
 - **Species Recovery Programme:** It is kept in the species recovery programme under the Integrated Development of Wildlife Habitats

	<p>of the Ministry of Environment, Forests and Climate Change (MoEFCC).</p> <ul style="list-style-type: none">○ Firefly Bird Diverters: Firefly bird diverters are flaps installed on power lines. They work as reflectors for bird species like the GIB. Birds can spot them from a distance of about 50 metres and change their path of flight to avoid collision with power lines○ Artificial Hatching: Collecting eggs from the wild and artificially hatching them.○ Supreme Court Judgements: In 2021, the Supreme Court directed:<ul style="list-style-type: none">■ Undergrounding of power transmission lines in priority GIB habitats.■ Mandatory installation of bird diverters where undergrounding is not feasible. <p>Source: Down to Earth</p>
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