

## UPSC Daily Current Affairs | Prelim Bits 06-11-2024

### Recent judgment on the Right to property

Supreme Court (SC) recently said that the government cannot acquire and redistribute all privately owned properties.

- **Article 39(b)** - State shall direct its policy towards securing that the ownership and control of the material resources of the community are so distributed as best to sub serve the common good.
- SC clarifies that Article 39(b) includes privately-owned resources but not every resource owned by the individual can be considered as a material resource.
- Further it says that the term “distribution” has a wide connotation, and the court must determine whether distribution of resources in a given case sub serves common good.
- **Right to property** - SC says that the interpretation of all private property is ‘material resource of community’ is incompatible with the right to property.
- The right to property under **Article 300A** is a constitutional right.
- Article 39(b), both as a pre-cursor to the protection of Article 31C and as an aspirational Directive Principle, cannot run counter to the constitutional recognition of private property.
- To hold that all private property is “material resources of the community” and that the ultimate aim is state control of private resources would be incompatible with the constitutional protection.
- The reference to the Constitution Bench was based on petitions filed by parties including the Property Owners Association (POA).
- Private properties cannot be taken over by the state under the garb of constitutional schemes of **Articles 39 (b) and 31 C** of the Constitution.

### References

1. [Indian Express | Right to property](#)
2. [The Hindu | Supreme Court decision on Right to property](#)
3. [Live Law | Judgement on Right to property](#)

### Vaccine-derived poliovirus

A recent report says that World Health Organization’s database on polio, like wild poliovirus and vaccine-derived poliovirus cases hides more than it reveals.

- VDPV stands for vaccine-derived [poliovirus](#), a **rare and weakened strain of poliovirus** used in the oral polio vaccine (OPV) mutates and regains the ability to cause paralysis.

- OPV contains a live, attenuated virus that is used for immunization against the disease.
- This weakened virus triggers an immune response when administered, thus protecting people from the disease.
- **Transmission** - The attenuated virus replicates in the intestines for a limited period and is excreted in the stool.
- In rare cases, the virus can mutate enough to cause the disease again, and circulate in areas where
  - Either immunization is low, or
  - Where immunocompromised persons reside, or
  - Regions with poor sanitation and hygiene.
- If it spreads in populations that aren't immunized or in people with compromised immune systems.
- **Symptoms** - VDPV causes acute flaccid paralysis (AFP), which includes muscle pain, loss of muscle reflexes, and floppy limbs.
- **Risk** - VDPV poses a similar risk to the community as wild poliovirus, and can spread to others who aren't vaccinated.
- **Detection** - If VDPV is detected in at least two different sources that are genetically linked, it's considered "circulating".
- **Prevention** - The inactivated poliovirus vaccine (IPV) protects against VDPV and is given as an injection in the arm or leg. The United States has used IPV exclusively since 2000.

*India was declared polio-free in 2014 by the World Health Organization (WHO).*

## Reference

[Polio Virus | Vaccine-derived poliovirus](#)

## Orphan drugs

*Orphan drugs have increasingly gained attention in India following the implementation of the [National Policy for Rare Diseases \(NPRD\)](#) in 2021.*

- Orphan drugs are critical in ***treating rare (orphan) diseases***.
- A disease is considered rare if it affects fewer than 200,000 people in the U.S. and fewer than 1 in 10,000 people in the European Union.
- There is ***no formal prevalence-based*** definition in India, the NPRD of 2021 outlines a framework for diagnosing and treating rare diseases, with a low prevalence threshold expected.
- **Category** - Under India's NPRD, rare diseases are classified into 3 categories to facilitate treatment approaches.
  - Group 1 includes disorders that are curable through one-time interventions, such as Lysosomal Storage Disorders (LSDs) requiring Hematopoietic Stem Cell Transplantation (HSCT).
  - Group 2 encompasses diseases that need long-term or lifelong management but

have relatively lower treatment costs, such as Phenylketonuria (PKU) and Maple Syrup Urine Disease (MSUD).

- Group 3 covers conditions like Gaucher Disease and Pompe Disease, where treatment is available but complicated by high costs and the necessity for lifelong care.
- Orphan drugs are categorized ***based on the types of diseases*** they target and their regulatory status.
- Diseases such as genetic disorders, rare cancers, metabolic disorders, and autoimmune conditions frequently fall under the orphan disease category.
- **Examples** - Ivacaftor for cystic fibrosis, Alglucerase for Gaucher disease, Coagulation factor IX for hemophilia B, Imatinib for leukemia, and Rucaparib for ovarian cancer.

*Orphanet is a resource that allows users to search for orphan drugs by disease name or substance name.*

- **Criteria** - For a drug to receive orphan drug designation, it must meet certain criteria that vary across countries. Typically, the disease in question must have a ***low prevalence***.
- Additionally, the condition must lack approved treatments, or the orphan drug must provide significant benefits over current treatment options.
- **Approval** - Developers of orphan drugs must also provide scientific evidence that the drug has the potential to treat or alleviate the condition.
- This evidence can be presented at any stage of drug development, from preclinical research to late-phase clinical trials.
- **Incentives** - Once designated, it receive several incentives to encourage their development, including market exclusivity, tax credits for research and development expenses, and fee waivers for regulatory applications.

## Reference

[The Hindu | Orphan Drugs](#)

## Yanadi tribe

*3 children of Yanadi tribe who went missing from their homes at Kalekhanpeta in Machilipatnam were traced recently.*

- The Yanadi are a scheduled tribe in ***Andhra Pradesh***.
- **Name** - The name may come from the Sanskrit word anadi, which means "of unknown origin".
- **Language** - Their mother tongue is Telugu.
- **Lifestyle** - They are nomadic and live in symbiosis with non-tribals.
- **Occupation** - They traditionally hunted, gathered, and farmed.
- **Health** - They have traditional knowledge of herbal remedies for a variety of ailments.
- **Religion** - They celebrate Hindu festivals and worship their household deities in

houses called "***Devuru Indlu***".

- **Dance** - They perform the ***Dhimsa Dance*** during festivals and special occasions.
- **Groups** - There are 4 endogamous groups like
  - Manchi Yanadis or Reddi Yanadis (Cultivators and servants)
  - Adivi Yanadis (those living in forests)
  - Paki Yanadis (Scavengers) and
  - Challa Yanadis (those who collect left out food from leaf plates in the dust bins).
- **Vulnerability** - They are among the most vulnerable tribal groups in India, living in extreme poverty and social exclusion.
- In 2001, an Integrated Tribal Development Agency (IITD) was established in Nellore to help with the socio-economic development of the Yanadi people.

## Reference

[The Hindu | Yanadi tribe](#)

## Alstonia Scholaris

*Cyclone Dana's heavy showers led to Chhatim trees (Alstonia Scholaris) shedding the flowers that have a strong fragrance recently.*

- **Family Name** - Apocynaceae.
- **Synonyms** - Echites scholaris, Alstonia kurzii, Tabernaemontana alternifolia, Acokanthera scholaris, Echites pala.
- **Common Name** - Indian Pulai, White Cheesewood, Devil Tree, Blackboard Tree, Milkwood Pine, Dita Bark, Bitter Bark.
- **Size** - It is a medium-sized evergreen tree, usually 12-18 m high, sometimes up to 27 m high, with close-set canopy.
- **Appearance** - Bark is rough, greyish white, yellowish inside, and exudes bitter latex when injured.
- Leaves are 4 to 7 in a whorl, and are thick, oblong, with a blunt tip. They are dark green on the top, and pale and covered with brownish pubescence on the dorsal surface.
- **Floral characteristics** - Flowers are ***fragrant***, greenish-white or greyish-yellow in umbrella-shaped cymes.
- Follicles (fruits) are narrowly cylindrical, 30 cm × 3 cm, fascicled, with seeds possessing brown hair.
- **Climate** - The species can be grown in a variety of climatic conditions in India, ranging from ***dry tropical to sub-temperate***.
- However, it thrives well in areas where annual rainfall is about 100-150 cm, as it prefers a fairly moist habitat.
- The species grows well in the ***red alluvial soil*** having proper aeration. It can thrive in black cotton soils as well, but the growth is slow due to prevailing moist soil conditions during rainy season.
- **Therapeutic uses** - It is used as a substitute for cinchona and quinine for the treatment of intermittent periodic fever.

- An infusion of bark is given in fever, dyspepsia, skin diseases, liver complaints, chronic diarrhoea, and dysentery.



## Reference

[Times of India | "Chhatim" trees \(Alstonia Scholaris\)](#)