

IMPRESSIVE TORTOISE (MANOURIA IMPRESSA)

✚ It is considered beautiful enough to be named '**Impressed**' has been Discovered in **Arunachal Pradesh**.

✚ The **Male Impressed Tortoise** is **Smaller** than the **Female** which is 30 cm in length. This Manouria species is one-third the size of the Asian Forest Tortoise.



✚ There are **Only Two Species** of tortoises under the Manouria genus.

✚ India was known to be the home of **Only** the Asian Forest Tortoise (Manouria Emys) until the discovery of the Impressed Tortoise.

✚ The **Asian Forest Tortoise**, the largest in mainland Asia, is found only in the northeast, as are 20 of the other 28 species of chelonians.

✚ Chelonian is an order of **Reptile** that includes **Turtles, Terrapins and Tortoises**.

P. THEAGARAYA CHETTY (27 APRIL 1852 - 28 APRIL 1925)

✚ He was an **Indian Lawyer, Industrialist and a Prominent Political Leader** from the erstwhile Madras province.

✚ He was one of the **Founders** of the **Justice Party in 1916** along with **C. Natesa Mudaliar, Dr. T. M. Nair**. He had an avid interest in politics and served as a member of **The Indian National Congress** before founding the **South Indian Liberal Federation in 1917**.

✚ He served as the President of the federation from 1917 till his death in 1925.

✚ Chetty is regarded as one of the founders of the **Non-Brahmin Movement in Tamil Nadu** and the first to lead the movement.

ANIMAL WELFARE BOARD OF INDIA (AWBI)

✚ The Animal Welfare Board of India is a **Statutory Advisory Body** on Animal Welfare Laws and promotes animal welfare in the country.

✚ Established in 1962 under Section 4 of the **Prevention of Cruelty to Animals Act, 1960** (No. 59 of 1960), the Animal Welfare Board of India was started under the stewardship of Late Smt. **Rukmini Devi**



Arundale, well known humanitarian.

- ✚ The Board consists of 28 Members including 6 MPs (4 from Lok Sabha and 2 from Rajya Sabha) The term of office of Members is for a period of 3 years.
- ✚ AWBI is headquartered at Ballabgarh in Haryana state
- ✚ The Board was initially within the jurisdiction of the Government of India's Ministry of Food and Agriculture. In 1990, the subject of Prevention of Cruelty to Animals was transferred to the Ministry of Environment, Forests and Climate change

Functions:

- ✚ **Recognition of Animal Welfare Organisations:** oversees Animal Welfare Organisations (AWOs) by granting recognition to them if they meet its guidelines.
- ✚ **Financial Assistance:** provides financial assistance to recognised Animal Welfare Organisations (AWOs), who submit applications to the Board.
- ✚ **Animal welfare Laws and Rules:** suggests changes to laws and rules about animal welfare issues
- ✚ **Raising Awareness:** issues publications to raise awareness of various animal welfare issues.

CHHOTA HAMMAM (ROYAL BATH)

- ✚ **Archaeological Survey of India** has to conserve the **Chhota Hammam (Royal Bath)** near Asad Burj inside Red Fort



- ✚ At least 4.46 metres below the surface, the rectangular hammam is 21.5×6.3 square metre in size.

- ✚ Two stairways, made of **Lakhori bricks and Red Sandstone**, lead to the bath, which has 15 arches — including one which has space to keep at least 10 oil lamps that once lit up the hammam.

BHITARKANIKA MANGROVES

- ✚ **Bhitarkanika Mangroves** is a **Mangrove Wetland in Odisha**, India, covering an area of 650 km in the Brahmani and Baitarani river deltas.

- ✚ Bhitarkanika Mangroves were designated a Ramsar Wetland of International Importance in 2002

- ✚ The national park is surrounded by the Bhitarkanika Wildlife Sanctuary. Gahirmatha Beach and Marine Sanctuary lies to the east



- ✚ The national park was created in September 1998 from the core area of the Bhitarkanika Wildlife Sanctuary, which was created in 1975. The sanctuary is the second largest mangrove ecosystem in India.
- ✚ The park is home to Saltwater Crocodile (*Crocodylus porosus*), White Crocodile, Indian python, King Cobra, black ibis, darters and many other species of flora and fauna.

MANGO LEAF EXTRACT CAN PREVENT STEEL FROM CORROSION

- ✚ Researchers from **The National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram**, have fabricated an anticorrosive material made from mango leaves since conventional anticorrosive method is toxic and not always environment friendly.



- ✚ All **Plants are rich in Phytochemicals** which act as their defence mechanism to ward off external destructive agents such as **Pathogens and Predators**
- ✚ By using ethanol, phytochemicals were extracted from dried mango leaves as they contain the maximum amount of bioactive elements
- ✚ These bioactive elements form an **Iron-Polyphenol-Insoluble-Organometallic-Compound**, which is responsible for the anti-corrosive property.
- ✚ Since the pure extract cannot be sustained as a coating, researchers prepared a hybrid by loading the extract in amorphous silica — a commonly used inorganic material
- ✚ Commercial steel specimen was dip-coated with the product and subjected to simulated harsh environmental conditions. The formulation displayed a **Maximum Efficiency of 99 per cent**, indicating **Anti-Corrosive Properties** of the mango leaf extract.

FALCON HEAVY

LAUNCH VEHICLE	FALCON HEAVY	SPACE SHUTTLE	PROTON M	DELTA IV HEAVY	TITAN IV-B	ARIANE 5 ES	ATLAS V 551	JAPAN H2B	CHINA LM3B
PAYLOAD TO LOW EARTH ORBIT (LEO)	63,800 kg 140,660 lb	24,000 kg 53,790 lb	23,000 kg 50,710 lb	22,560 kg 49,740 lb	21,680 kg 47,800 lb	20,000 kg 44,090 lb	18,510 kg 40,810 lb	16,500 kg 36,380 lb	11,200 kg 24,690 lb

- ✚ Elon Musk's SPACEX launched its Falcon Heavy Spacecraft on its third mission, and the most complex one, because of its huge payload- — 24 satellites from various organisations, including Government Agencies.

- ✚ **Falcon Heavy** is a Reusable Super Heavy-Lift Launch Vehicle Designed and Manufactured by **SpaceX**, a private American aerospace manufacturer.
- ✚ It is the most powerful operational rocket in the world.
- ✚ It can lift about **Twice** the payload at one third of the cost by Delta 4 rocket which was the most powerful rocket till now. This lift capacity allows launching heavier satellites into low Earth orbit, or reaching higher geostationary orbits to keep station over the same part of Earth.
- ✚ Its three first-stage boosters are designed to be **Reusable**

LUNAR EVACUATION SYSTEM

✚ **Developed by the European Space Agency (ESA)**

✚ ESA is a **Pyramid-Like Structure** whose purpose is to rescue an astronaut should he or she suffer an injury on the lunar surface.

✚ Astronauts will be wearing heavy extravehicular activity (EVA) suits and, as ESA head of Spacewalk Training.

✚ There is no way an astronaut could carry their fallen crewmate over their shoulder while wearing an EVA suit.”

✚ LESA can be operated by a single astronaut to rescue a fallen colleague.

✚ It enables an astronaut to lift their crewmate onto a mobile stretcher in less than 10 minutes, before carrying them to the safety of a nearby pressurized lander.

