

DAILY PT POINTERS

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The Hindu-Environment(GSIII)-Page 7

IUCN representative to be an observer in Tamil Nadu's Nilgiri Tahr survey

The three-day exercise is being done to estimate the population of the Tahrs, which once roamed the length and breadth of the Anamalai and Nilgiris landscape.

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GEETHA SRIMATHI











- The animal is listed as an endangered species by the International Union for Conservation of Nature (IUCN) and protected under Schedule-I of the Wild Life (Protection) Act, 1972.
- There are around 3,000 Tahrs in the Western Ghats, according to a report released by the World Wildlife Fund India in 2015, and a sizeable number of them is concentrated in the Anamalai Tiger Reserve (ATR).
- There are multiple references to Nilgiri Tahr in the Sangam Tamil literature. Two epics — Silappathikaram and Sivakasindamani — mention descriptions of the Nilgiri Tahr and its habitat.

Indian Express-Polity and Governance(GSII)-Page 1

NO INDICATION OF ARTIFICE, DECEIT: BENCH

SC says no return to ballot papers, backs 'secure, user-friendly' EVMs

Rejects plea for 100% verification of votes polled in EVMs with slips from VVPATs

ANANTHAKRISHNAN G NEW DELHI, APRIL 25

working of Electronic Voting Machines (EVMs), the Supreme Court Priday rejected prayers for to the system of ballot papers.



REAFFIRMING ITS faith in the At a polling booth in Mathura on Friday. Georgie Visitor

In separate but concurring judgements, the two-judge bench of Justices Sangy Khanna and Dipankar Datta, which "conducted an in-detail review of the

administrative and technical nism" said, "To us, it is apparent that a number of safeguards and

EXPLAINED

SYMBOL LOADING UNIT: FEEDING CANDIDATE INFORMATION TO EVM

It said "data and figures" placed before it "do not indicate artifice and deceit".

The bench gave candidates at No. 2 and No. 3 positions the option to get the burnt memory/microcontroller of 5 per cent of EVMs per Assembly segment "checked and verified by a team of engineers from EVM manufacprotocols with stringent checks results" on a written request for CONTINUED ON PAGE 2



- An electronic voting machine (EVM) is a portable instrument for the purpose of conducting elections to the parliament, legislature and local bodies like panchayats and municipalities.
- EVM is a microcontroller-based instrument designed to modernise the election procedure and there is no scope for invalid votes and total secrecy of voting data is maintained and it also facilitates quick and accurate counting.
- EVMs were first used in 70-Parur Assembly Constituency of Kerala in the year 1982.
 - VVPATs with EVMs were used for first time in a byeelection from 51-Noksen (ST) Assembly Constituency of Nagaland
- EVMs do not require electricity. EVMs run on an ordinary battery

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SLU, 'matchbox' that feeds EVM candidate info

Symbol Loading Units ensure EVMs can be used for voting. Underlining the sanctity of the election process, the SC has tightened norms for their use

DAMINI NATH & RITIKA CHOPRA NEW DELHI, APRIL 26

(VVPAT) slips against the Electronic Voting numbers, and symbols. Loading Unit (SLU) for 45 days after the dec- a district election officer. laration of election results.

the EVM — the ballot unit, control unit, and are SLUs used? VVPAT — are stored for 45 days after the reThe SLUs come into the picture only a few

What is a Symbol Loading Unit (SLU) and how does it work?

ify their votes — they see a slip with a printed actual voting process. image of the party symbol they voted for.

But for the VVPAT to print a symbol cor- What happens to an SLU after symbols rectly, information pertaining to the list of are loaded? candidates and their symbols must be loaded VVPATs necessitated the use of SLUs.

The SLU is used to load the symbols of the candidates onto the VVPAT. It is a matchboxsized device that is first connected to a laptop or personal computer, from where a symbol WHILE REJECTING the plea for 100% verifi- loading application is used to load a bitmap cation of Voter Verifiable Paper Audit Trail file containing the candidates' names, serial

Machine (EVM) count, the Supreme Court The SLU is then connected to the VVPAT on Friday directed the Election Commission to transfer that file on to the paper audit maof India (ECI) to "seal and secure" the Symbol chine. This is done under the supervision of

Symbol Loading Units (SLUs) were intro-seat. Once the SLU is used to load symbols duced around the same time as WPATs - alit- onto the WPAT, the EVM is ready for use tle over a decade ago. VVPATs help voters ver- After this, the SLU is of no relevance to the

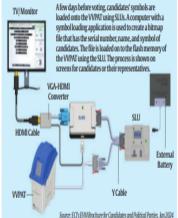
Currently, only the three components of At which point in the election process

sults. This is the first time that SLUs, used to days before polling in a particular seat, when load candidate symbols onto the VVPATs, will the EVMs are being commissioned and the list/ also be available for examination along with order of contesting candidates is decided and the EVMs if a candidate challenges the re-set on the ballot unit (the machine where you sults by filing an election petition in court. press the button to vote) and the WPAT (which produces the paper audit trail of your vote).

Candidate-setting can happen at any time from five to two days before voting at a

Typically, a small number of SLUs are tervoting. Afterward, the SLUs are released is typically reused after one phase of polling 5% of the EVMs per Assembly constituency or of results. During this period, the EC machinon to the VVPAT machine in the correct order. enough to load symbols onto all VVPATs for to the engineers of the two EVM manufact to load symbols onto VVPATs meant for other Assembly segment of a parliamentary conery does not touch the EVMs. If these ma-This is where the Symbol Loading Unit, or a seat, According to EC officials, it takes an turers. Bharat Electronics Ltd (BEL) or seats in subsequent phases. SLU, comes in. In fact, the introduction of SLU two to three minutes to load each VVPAT. Electronics Corporation of India Ltd (ECIL), Once the symbol-loading is complete, the so they can be used to load symbols onto What has the SC said about the SLUs?

LOADING CANDIDATES' INFORMATION ONTO EVMS



be sealed and stored immediately after the fication, however, is limited to those candisymbol-loading process for a seat is com- dates who come in second or third. Engineers plete. It must be stored for a period of 45 days from the manufacturing companies will cerafter the declaration of results, so that it can tify the authenticity and intactness of the be opened and examined like EVMs in case memory/ microcontroller. of an election petition.

This effectively means that an SLU used What happens if the microcontrollers, for loading symbols onto VVPATs for one seat upon verification, are found tampered? can no longer be reused for other seats. about 5,000 SLUs, and will need an addi-how the election result will be impacted. tional 2,000 to implement the SC's direction.

And what has the top court said about

for tampering, in case of any doubts regard-quire additional manpower.

The court has said that the SLUs should pense of the process. This right to seek veri-

The court has only said that if any tam-Consequently, the EC will need more SLUs. pering is found, the candidate will be re-Sources said the Commission currently has funded the cost of verification. It has not said

What changes on the ground?

Nothing changes for the voter, However, a lot changes in the way the ECI organises polling.

In an unprecedented move, the court has The ECI will now have to store SLUs for 45 allowed candidates to seek verification of days after voting. To reserve one SLU exclu-EVM software. This effectively means that a sively for one seat, it will need to order more candidate can ask ECI officials to check the SLUs. It will also have to ensure the verificaone-time programmable software in the BU tion of EVMs upon request from candidates (Ballot Unit), CU (Control Unit), and VVPAT who finish second or third, which may re-

This verification involves inspecting the whether the Representation of the People burnt memory/ microcontrollers of these Act of 1951 has to be amended. The election SLUs are handed over to the concerned district election officer for safekeeping. Theyre- Thus, in a multi-phase election like the formula for doing this: engineers from the challenging a result can be filed in court by a main in the officer's custody until the day afongoing one for the 18th Lok Sabha, an SLU EVM manufacturers will conduct checks on candidate within 45 days of the declaration stituency. Candidates must submit a written chines now need to be unsealed for verificarequest within seven days of the announce- tion purposes, the poll panel will have to ment of results, and will have to bear the ex- determine how this can be accomplished.



The SLU is used to load the symbols of the candidates onto the VVPAT. It is a matchbox-sized device that is first connected to a laptop or personal computer, from where a symbol loading application is used to load a bitmap file containing the candidates' names, serial numbers, and symbols.

The SLU is then connected to the VVPAT to transfer that file on to the paper audit machine. This is done under the supervision of a district election officer

Indian Express-Geography(GSI)/Environment(GSIII)Page 14

How ISRO used satellite remote-sensing to analyse glacial lakes in Himalayas

This is the latest among a clutch of studies on glacial lakes that have highlighted the risks of glacial lake outburst floods (GLOFs), and their impact on infrastructure and settlements downstream of such lakes.



- the Indian Space Research Organisation (ISRO) released satellite-data-based analysis on expansion of glacial lakes in the catchments of Indian Himalayan river basins. This is the latest among a clutch of studies on glacial lakes that have highlighted the risks of glacial lake outburst floods (GLOFs), and their impact on infrastructure and settlements downstream of such lakes.
- The movement of glaciers causes erosion and creates depressions in the surrounding topography. When they retreat, meltwater starts to accumulate in such depressions, giving birth to glacier lakes.
- ISRO categorised glacial lakes into four broad categories based on how they were formed — moraine-dammed, ice-dammed, erosion-based, and 'others'. Moraine and ice-dammed lakes are formed when water is dammed by moraine — debris such as rocks and soil left during the movement of glaciers — and ice respectively. Erosionbased lakes are formed when water is dammed by erosion-created depressions.

News on air –IR(GSII)

India-South Korea Consultations On Disarmament And Non-Proliferation Held In Seoul Today



- Top officials of India and South Korea on Friday discussed developments in the areas of disarmament and nonproliferation relating to nuclear, chemical and biological domains.
- The two sides discussed developments in the field of disarmament and non-proliferation relating to nuclear, chemical and biological domains, as well as regional nonproliferation issues, outer space security-related matters, conventional weapons, including AI in the military domain and multilateral export control regimes,