

National Design Idea Competition

For Model Design of EVM & VVPAT Warehouse

Election Commission of India



Introduction and Intent

Indian elections are considered a milestone in Electoral Governance world over. Since 2004, Electronic Voting Machines (EVMs) have become integral to the Electoral Governance in India. These Electronic Voting Machines are used at each Polling Station and it numbers in atleast 1 million. In General Elections to Lok Sabha-2019, Voters' Verifiable Paper Audit Trail (VVPAT), another device will be attached with the EVMs.

Through out the country, ECI is planning to have close to 600 warehouses to store these EVMs & VVPATs in safe & secure environment.

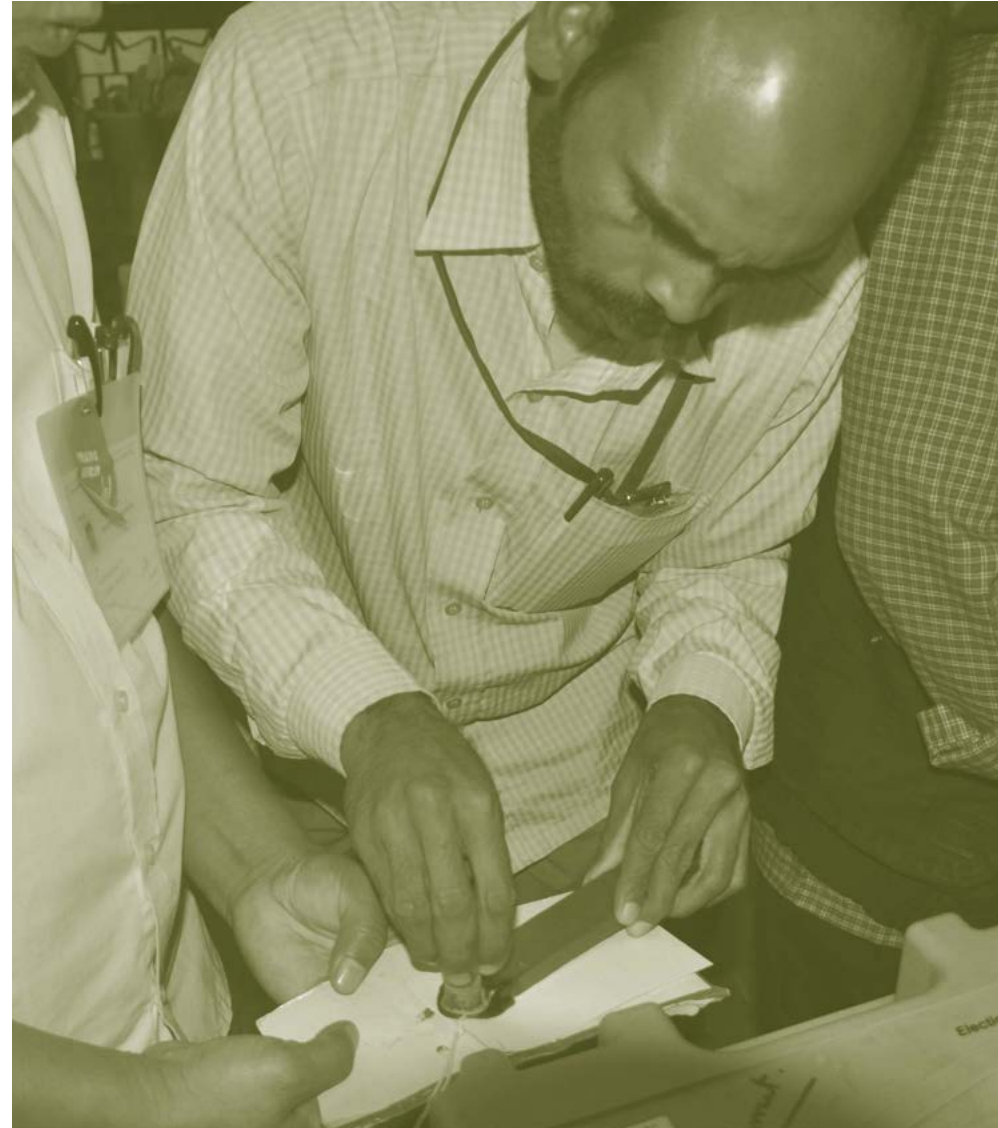
The Chief Electoral Officer, Delhi invites entries from students and faculty of prestigious institutions of Architecture and Design in India, for the design of warehouse for EVMs and VVPATs.

Design Brief & Specifications

To conceptualize model design of a warehouse for the storage of Electronic Voting Machines (EVMs) and Voetrs' Verifiable Paper Audit Trail (VVPAT) which can be adopted by all States/Union Territories (with modifications as per their local requirement).

The competition has two categories and the competitors are free to participate in either one or both the categories. The two categories of the competition are:

1. For storage of 2000 no. of BU, 2000 no. of CUs and 2000 no. of VVPATs
Area Requirement: 750 sq.m (Total covered area on all floors)
2. For storage of 6000 no. of BU, 6000 no. of CUs and 6000 no. of VVPATs
Area requirement: 2100 sq.m (Total covered area on all floors)





Design Guidelines

The proposed warehouses should be safe from security point of view having all the features as per guidelines of the Election Commission of India (dated 05/05/2015 - [please click here](#)).

The EVM warehouse should be designed in such a way that the EVMs should be arranged according to the numbers.

The EVM warehouse should have the double locking system(as bank lockers), so as to store the EVMs safely after the election process.

There must be a proper ventilator and exhaust facilities in the warehouse which should not affect the EVMs

There should be proper racking system for storage of EVMs and VVPATs in the warehouse.

The windows of the warehouse should be designed in such a way that it should be sealed easily and opened easily.

The warehouse must have the alarm system. This alarm system should be connected to the nearest police station and office of District Election Officer/District Magistrate for safety purpose.

The EVM warehouse should have sufficient lighting.

Creating a 24 hours security room along with atleast 2 security personnels.

Components of Warehouse Building

1. Storage area: The trunks containing EVms and VVPATs are stored here.

2. Space for first level check: The EVMs and VVPATs are checked before dispatching and receiving in warehouse.

3. Receiving and dispatching area: Specific area for receiving and dispatching of EVMs and VVPATs.

4. Office: An office for managing records.

5. Guard room: with facility to accommodate minimum 2-3 guards.

6. Public Utilities

Basic Information

Electronic Voting Machine (EVM)

One EVM consists of two components:

- (i) Ballot Unit (BU)
- (ii) Control Unit (CU)

Ballot Unit and Control Unit are first kept in plastic cases and then these plastic cases are kept in trunks.



Electronic Voting Machine



VVPAT kept inside a trunk



Trunks used for storage

Trunk Information

- Trunk of BU and CU are separate and each trunk has a storing capacity of 10 BUs and 10 CUs respectively
- Dimensions of trunk for BU are 42" X 25" X 17"
- Dimensions of trunk for CU are 33.5" X 24" X 17"
- VVPAT is directly stored in aluminium/steel box individually.
- Each aluminium/steel box contains one VVPAT and its dimensions are 20" X 12" X 18"

Eligibility

The competition is open to all architecture and design students and faculty(as supervisor) in India. A maximum of three member team is eligible to take part in the said competition. The said team could be an all student team or a team of two students with maximum one faculty member as a supervisor.

Atleast one member of the team should be enrolled or applied for enrollment in the Electoral Roll at any Constituency of India.

Competition Schedule

Important Dates

Launch of the Competition and Registration	: 23rd Dec 2016
Last Date for Clarifications	: 8th Jan 2017
Replies to Queries	: 15th Jan 2017
Closing of Registration & Team Building	: 15th Jan 2017
Last Date for Online Submission	: 22nd Jan 2017
Announcement of Results	: 25th Jan 2017

Registration and Uploading Details

Prospective competitors are required to register their detailed profile on the site <http://ceodelhi.gov.in/onlineerms/designideacompetition/teamcoordinatorlogin.aspx> giving their email address, contact numbers and other pertinent details as required.

In order to maintain the anonymity of the competition, there should be no name or code etc. mentioned on uploaded files/drawings that may reveal the identity of the competitor.

Deliverables

- The competitors are required to submit their conceptual drawings and sketches online in PDF format.
- Plans at all levels
- Elevation & Sections
- 3D model (walk through)
- The competitor may submit their entries providing explanatory text supported by sketches to convey the designer's interpretation of the architectural programme and functional relationship. This shall not exceed 10 no. of A3 size sheets (PDF format). The file size should not exceed 10 MB.

Assessment Criteria

All entries received for this competition will be assessed under below mentioned criteria:

- The aims and objectives of the promoters' introduction and intent.
- Responsiveness to local microclimate and achievement of energy efficiency through design.
- Flexibility in design for additions, expansion or alterations for accommodating future needs.

Note:- The organisers reserve the right to select or reject any entry without tendering any justification. The rule of anonymity will apply throughout the competition.

Competition Jury

The Jury will comprise of nine members; which will include four members from the Election Commission of India (as non-technical members) and five eminent Professionals from the field (as technical members).

Jury Members

S.No.	Members from ECI	Eminent Professionals
1.	Secretary, ECI - Chairman	Ar. Pradeep Sachdeva
2.	Additonal CEO (Delhi)	Prof. A.B Lal
3.	Jt. CEO (Bihar)	Ar. Dikshu Kukreja
4.	Dy. CEO (Karnataka)	Chief Architect NDMC
5.	-	Chief Architect CPWD (NDR)

The Professional Advisors will be present during the deliberations of the jury in order to answer possible questions relating to the technical requirements of the architectural programme and conformity with the regulations.

All the Members of the jury will normally be present for all the working meetings. In the unlikely event of one or more of the Jury Members not being able to attend the deliberations of the jury, the meeting would continue provided the number of Jury Members present is at least five and the number of Technical Members present is equal to or more than the Non-Technical Members (Government Members). The meeting can also be conducted through video conference, if required.

Deliberations of the Jury

The Chairperson and the Members of the jury will themselves determine the procedure to be followed for the assessment of the entries received. On conclusion of the assessment, the Jury will submit a signed report to the Promoter indicating the procedures and criteria used for assessment. The jury will record comments against the shortlisted entries. The report will also mention the entries that have been disqualified and the reasons therefore.

Compensation and Awards

Prize for Category 1 (2000 nos. capacity EVMs and VVPATs):

First Prize (One)	: 50,000 (INR)
Second Prize (One)	: 30,000 (INR)
Third Prize (One)	: 20,000 (INR)

Category 2 (6000 nos. capacity EVMs and VVPATs):

First Prize (One)	: 50,000 (INR)
Second Prize (One)	: 30,000 (INR)
Third Prize (One)	: 20,000 (INR)

The Promoter will award prizes only in accordance with the recommendations of the Jury. If in the view no entries are worthy of any prize, none will be awarded.

Further, only those proposals that fulfill all the requirements covered by the Design Brief will qualify for being considered for awarding of any prize. All prizes will carry a citation and a certificate.

Application of Regulations

Sending of submission by a competitor implies the acceptance of all the competition regulations contained in the Competition Dossier. The Jury alone is vested with the authority to enforce the regulations. The lapses, if any, with regard to the conformity of the competition regulations will be recorded by the Professional Advisor for the consideration of the jury.

The Jury's decision in the matter will be final and binding. By sending their submission the competitors submit themselves to the decisions of the jury which alone will be competent in the application and interpretation of the regulations.

Ownership & Copyright

The Promoter retains all rights of ownership of the design of the prize winner with whom an Agreement would be entered into subject to legal and regulatory safeguards covering the intellectual property.

The Promoter reserves the right to retain copies of the report and the drawings of all the design entries for future dissemination in the form of publication, exhibition etc.

Resolution of Disputes

The jury shall be the sole arbiter at all stages of the competition and up to the stage of signing of an Agreement between the Promoter and the Designer.

In the event of litigation the courts at New Delhi shall have exclusive jurisdiction.

List of Documents provided to the Competitors

The competition dossier incorporates the following:

- a) Introduction & Intent
- b) Design Brief & Specifications
 - b1) Design Guidelines
 - b2) Components of Warehouse Building
 - b3) Basic Information
- c) Eligibility
- d) Competition Schedule
 - d1) Important Dates
- e) Registration and Uploading Details
- f) Assessment Criteria
- g) Competition Jury
 - g1) Jury Members
 - g2) Deliberations of the Jury
- h) Compensation and Awards
- i) Application of Regulations
- j) Ownership & Copyrights
- k) Resolution of Disputes

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Acknowledgement

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