

# कार्यालय मुख्य निर्वाचन अधिकारी, उत्तर प्रदेश।

चतुर्थ तल विकास भवन, जनपथ मार्केट, लखनऊ-226001

संख्या: 750/सी0ई0ओ0-3-96/3-2017

लखनऊ: दिनांक: 01 अक्टूबर, 2021

सेवा में,

समस्त जिला निर्वाचन अधिकारी,  
उत्तर प्रदेश।

विषय: **M-3 EVM Highlights Additional features-regarding.**

महोदय,

उपर्युक्त विषय पर कृपया भारत निर्वाचन आयोग के पत्र संख्या-51/8/INST/2021-EMS, दिनांक-28.09.2021 (छायाप्रति संलग्न) का सन्दर्भ ग्रहण करने का कष्ट करें।

2- आयोग ने अपने उपर्युक्त पत्र के माध्यम से एम-3 माडल ई0वी0एम0 के अतिरिक्त तकनीकी गुणों का उल्लेख करते हुये, यदि आवश्यक हो तो उक्त विवरण सभी संबंधित के संज्ञान में लाने हेतु निर्देशित किया है।

तदनुसार भारत निर्वाचन आयोग से प्राप्त उक्त पत्र दिनांक-28.09.2021 की संलग्नक सहित छायाप्रति भेजते हुये मुझे यह कहने का निदेश हुआ है कि कृपया आयोग के संलग्न पत्र में एम-3 माडल ई0वी0एम0 के अतिरिक्त तकनीकी गुणों को समस्त रिटर्निंग आफ़ीसर/नोडल अधिकारी ई0वी0एम तथा अन्य सभी संबंधित के संज्ञान में लाते हुए अनुपालन सुनिश्चित कराने का कष्ट करें। साथ ही यदि आवश्यक हो उक्त विवरण को सभी संबंधितों के साथ साझा किया जा सकता है।

**संलग्नक: यथोक्त।**

भवदीय,

1.10.21

(केशव कुमार)

संयुक्त मुख्य निर्वाचन अधिकारी

**संख्या: 750 (1)/सी0ई0ओ0-3 तददिनांक।**

प्रतिलिपि संलग्नक सहित निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:-

1. सचिव, भारत निर्वाचन आयोग, निर्वाचन सदन, अशोक रोड, नई दिल्ली।
2. समस्त मण्डलायुक्त, उत्तर प्रदेश।
3. समस्त उप जिला निर्वाचन अधिकारी, उत्तर प्रदेश।
4. समस्त अधिकारी/अनुभाग, कार्यालय मुख्य निर्वाचन अधिकारी, उ0प्र0।
5. प्रभारी कम्प्यूटर कक्ष को वेबसाइट पर अपलोड करने हेतु।

1.10.21

(केशव कुमार)

संयुक्त मुख्य निर्वाचन अधिकारी

# ELECTION COMMISSION OF INDIA

NIRVACHAN SADAN, ASHOKA ROAD, NEW DELHI-110001

No. 51/8/INST/2021-EMS

Dated: 28<sup>th</sup> September, 2021

To

The Chief Electoral Officers of  
All the States and Union Territories.

Subject: M-3 EVM Highlights- Additional features-regarding  
Reference: ECI letter no 51/8/7/2020-EMS dated 25<sup>th</sup> Sept 2020

Madam/Sir,

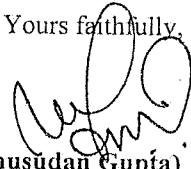
I am directed to state that now M-3 EVMs are being used by the Election Commission of India throughout the country to conduct general/bye elections to the Assembly and Parliamentary Constituencies and M-2 EVMs are phased out since the General Election to the Lok Sabha in 2019. M-3 EVMs were introduced since year 2014 in phased manner. **M-3 EVMs also have all the technical security features available with their previous models of EVMs (M-1 and M-2)** earlier used by the Election Commission of India *inter-alia* standalone machine (no-connectivity), One Time Programmable (OTP) chip, no Radio Frequency transmission or reception, Dynamic Coding of key presses, Date and Time Stamping of each key press etc.

2. **In addition to the above features of the earlier models, M-3 EVM has additional advance technical features** like UADM (Unauthorised Access Detection Module), Self-diagnostic for EVM's health, Strong mutual authentication of CU, BU and VVPAT, Battery life prediction, catering 24 Ballot Units with one Control Unit to accommodate 384 candidates etc. Apart from the above advanced technological features, M-3 EVMs are sleeker and lighter in weight, enabling ease of handling by the election personnel. A small write up on advance additional features incorporated in M-3 EVM is attached herewith for ready reference.

3. Since many States/Districts will be using M-3 machines for the first time after their previous general elections, these details may be used while educating the stakeholders, if required.

Encl: As mentioned.

Yours faithfully,

  
(Madhusudan Gupta)  
Secretary

50-3  
29/09/21

S. No.	M3 EVM HIGHLIGHTS
1	<p><b>Sleeker and lighter:</b> Design of M3 model is sleeker and lighter in weight. This is very helpful at the time of transport and shifting.</p>
2	<p><b>Connectivity with up to 24 BUs:</b> As against the M2 EVMs, wherein only 4 BUs could be connected together, in the M3 EVMs - 24 BUs could be connected together. With each BU capable of handling 16 candidates (including NOTA), the feature enables a possibility of handling 384 candidates per constituency using the M3 EVMs. Therefore, M3 EVMs are highly scalable in their operations.</p>
3	<p><b>Unauthorised Access Detection Module (UADM):</b> UADM is a protective circuit/feature embedded in the M3EVMs. In case of any unauthorised attempt at accessing the microcontroller or the memory of the EVMs, the UADM automatically puts the machine in the 'factory mode' rendering it totally inoperable. Subsequently, the machine could be set right only in the factories. This adds to the tamper-proof nature of the EVMs.</p>
4	<p><b>Strong Mutual Authentication Capability:</b> Mutual authentication among all components of EVMs such as BU, CU and VVPAT has been strengthened by use of various advanced security protocols. This superior security feature adds to the integrity of the EVMs.</p>
5	<p><b>Self-Diagnostics:</b> Automatic self-diagnostics at SWITCH-ON, has been introduced for checking the health of various subsystems of the EVMs. This feature will be useful in identifying and weeding out any potentially defective machines at a starting stage itself, thereby helping in smooth conduct of polls.</p>
6	<p><b>Accurate battery life prediction:</b> Accurate %-level battery life predication facility. This is a very useful facility that will enable the personnel to keep track of the battery usage on a continuous and accurate basis, and plan for replacements in advance.</p>
7	<p><b>Separate battery compartments for ease of use:</b> In M3 EVMs, the Battery compartment and Candidate Set compartment of the CU are given separate access and both are sealed separately. Therefore, it is now possible to change CU Battery when required, by opening only the Battery compartment. Earlier, in such a case, the entire CU had to be replaced because battery section and candidate set section had common compartment.</p>

BU - Ballot Unit, CU - Control Unit, VVPAT - Voter Verifiable Paper Audit Trail.

