केन्द्रीय माध्यमिक शिक्षा बोर्ड
CENTRAL BOARD OF SECONDARY EDUCATION
(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संगठन)
(An Autonomous Organization under the Ministry of Education, Govt. of India)

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Circular No.09/2025
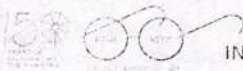
All the Heads and Managers of the schools

Subject: Implementation of Digital Infrastructure in CBSE Schools-reg.

CBSE as a National Board of formal education has a critical role in implementation of the National Education Policy 2020. It keeps on revising/updating its norms and system from time to time for the betterment of school education and students studying in its affiliated schools. Clause 4.4 of Affiliation Bye Laws-2018 of the Board mandates that the Board's affiliated Schools should have minimum one Computer Lab for imparting computer education to the students.

2.   Clause 4.46 of the NEP stipulates that "*Once internet-connected smart phones or tablets are available in all homes and/or schools, online apps with quizzes, competitions, assessments, enrichment materials, and online communities for shared interests will be developed, and will work to enhance all the aforementioned initiatives, as group activities for students with appropriate supervision of parents and teachers. Schools will develop smart classrooms, in a phased manner, for using digital pedagogy and thereby enriching the teaching-learning process with online resources and collaborations.*"

3.   And according to Clause 23.1 of NEP 2020. "*India is a global leader in information and communication technology and in other cutting-edge domains, such as space. The Digital India Campaign is helping to transform the entire nation into a digitally empowered society and knowledge economy. While education will play a critical role in this transformation, technology itself will play an important role in the improvement of educational processes and outcomes; thus, the relationship between technology and education at all levels is bi-directional.*"

4.   Therefore, in accordance to the National Education Policy 2020, the following revised norms are laid down for Mandatory Digital Infrastructure to be implemented in Boards affiliated schools henceforth:

1.	**Availability of computers with internet connectivity**
	• 01 (One) Computer System per 18 (eighteen) students (Desktops/ Laptops/ Chromebooks) inter-connected with a single LAN network with audio-video input and output (Webcam/Speakers etc.) with minimum of 40 such computer systems including above accessories in the school computer Lab must be available in schools. Existing schools shall gradually enhance their infrastructure as per present guidelines.

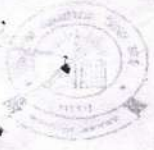| 2.	**Installation of Server**
	• Server(s) - at least 01 computer system with high configuration to be used as a Server for Assessment/ Examination purposes.
3.	**Data Backup provisions**
	• Data backup devices – either Cloud-based or Physical (external Hard Disc Device – HDD) for all kinds of data storage.
4.	**Internet Connectivity**
	• Lease line / Wi-Fi with high-speed internet connectivity
5.	**Accessories**
	• At least 02 printers and 02 scanners per computer lab. • UPS - Mandatory to support all computer systems in lab for providing power backup to ensure uninterrupted power supply. • Licensed Software, including Anti-Virus and other Security Systems for the Digital infrastructure
6.	**Smart Boards-** For effective classroom transactions. Smart Boards running Android operating system must be EDLA certified for enhanced security
7.	Schools are once again directed to adhere to the **Guidelines for Safe and Effective Use of Internet and Digital Technologies in Schools and School Buses** issued vide circular number 32/2017 dated August 18,2017.

The revised mandatory requirement for the configuration of various machines is given in **Annexure-A**.

The Board will confirm the availability of the IT/ Digital infrastructure at the time of extension or up-gradation of the school.

(Himanshu Gupta)
Secretary, CBSE

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(Himanshu Gupta)
Secretary, CBSE

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Revised Mandatory Configurations for Computers:

DESKTOP:

Operating System	• Recommended Operating System: Linux • The schools can also have the Licensed version of Windows 10 or above or Chrome Operating System (Chrome OS) or Chrome Operating System Flex (Chrome OS Flex) (Whichever is feasible for schools) As far as possible, the school should install Operating systems that have in-built protections against virus, malware, ransomware, and also be encrypted to prevent data-theft without the need of enforcing third party anti virus, anti malware, and encryption tools. Additionally, the operating system must not be end of life and must be eligible for free OS and security updates
Processor (CPU)	• Intel Core i5 (10th generation or newer) or equivalent or above • Intel Celeron (N series) or higher • Mediatek Kompanio series or higher
Browser	• Latest Microsoft Edge/ Google Chrome/ Mozilla Firefox with JavaScript. (It should be regularly updated, to overcome the security threats)
RAM	• 4 GB and above
Storage	• 128 GB (or higher) internal Solid State Drive (SSD) or 1 TB internal HDD having at least 50 GB free space • 32 GB eMMC / SSD or Higher (with at least 24 GB or higher usable storage)
Monitor/Display	• 14" or above LCD monitor
Other	• Internal or external Webcam, external hard drive for backups.
Device Management Software	Device management software that allows IT admins: 1. To remotely and centrally manage all the devices in the domain 2. To remotely wipe out the user data and disable the device in case of loss or theft to ensure no data is stolen 3. The ability to enforce control to prevent users from overriding / re-imaging the operating system on the device 4. The ability to provide a safer browsing experience to prevent students from falling prey to phishing, suspicious, and malware activities. 5. The ability to prevent download of malicious and potentially dangerous softwares.

LAPTOP:

Operating System	• Recommended Operating System: Linux • The schools can also have the Licensed version of Windows 10 or above or Chrome Operating System (Chrome OS) or Chrome Operating System Flex (Chrome OS Flex) (Whichever is feasible for schools) As far as possible, the school should install Operating systems that have in-built protections against virus, malware, ransomware, and also be encrypted to prevent data-theft without the need of enforcing third party anti virus, anti malware, and encryption tools. Additionally, the operating system must not be end of life and must be eligible for free OS and security updates
Processor (CPU)	• Intel Core i5 (10th generation or newer) or equivalent or above • Intel Celeron (N series) or higher • Mediatek Kompanio series or higher
RAM	4 GB and above
Storage	• 128 GB (or higher) internal Solid State Drive (SSD) or 1 TB internal HDD having at least 50 GB free space • 32 GB eMMC or Higher (with at least 24 GB or higher usable storage)
Monitor/Display	• 11.6 inch and above
Other	• Internal or external Webcam, lock, carrying case, external hard drive for backups.
Device Management Software	Device management software that allows IT admins: 1. To remotely and centrally manage all the devices in the domain 2. To remotely wipe out the user data and disable the device in case of loss or theft to ensure no data is stolen 3. The ability to enforce control to prevent users from overriding / re-imaging the operating system on the device 4. The ability to provide a safer browsing experience to prevent students from falling prey to phishing, suspicious, and malware activities. 5. The ability to prevent download of malicious and potentially dangerous softwares.

SERVER:

Operating System	• Linux • Licensed version of Windows 10 or above
Processor (CPU)	• Intel Core i7 CPU 16 GB RAM OR Intel Xeon D/E/W series with at least 8 CPU cores or more
RAM	• 16 GB and above
Storage	• 2 TB internal Solid State Drive (SSD) or 2 TB x 4 internal HDD
Monitor/Display	• 15"-18" LCD monitor
Other	• Internal or external Webcam, external hard drive for backups.