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भारत सरकार
खाद्य एवं सार्वजनिक वितरण विभाग
उपभोक्ता मामले, खाद्य और सार्वजनिक वितरण मंत्रालय
कृषि भवन, नई दिल्ली - 110 001
Government of India
Department of Food & Public Distribution
Ministry of Consumer Affairs
Food & Public Distribution
New Delhi-110 001

D.O. No. 14(12)/2014/Comp.

Dated : 19th April, 2021

Dear Sir/Madam,

As you are aware that under Fair Price Shop (FPS) automation, the implementation guidelines and technical specifications for ePoS devices/mobile terminals were issued by the Department in November 2014, which needs to be periodically upgraded in view of the fast-changing technology, evolving business needs and software applications under PDS reforms. Further, it is also felt that the existing technical specifications of ePoS devices/tablets may fall short to fulfill the ongoing/future requirements under PDS reforms including the evolving requirements of the One Nation One Ration Card plan and thus there is an immediate need to revise the same to keep pace with the latest technology and future requirements.

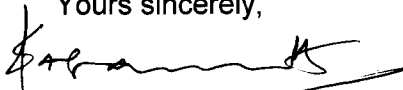
2. Based on the recommendations of a Committee comprising NIC, DFPD, UIDAI etc., I would like to inform that this Department has now framed the revised minimum suggestive technical specifications for ePoS devices/tablets to be used at Fair Price Shops (FPSs), as enclosed herewith.

3. I therefore urge all States/UTs to adopt the new specifications whenever the State/UT decides to renew the ePoS infrastructure, while giving the preference to ePoS devices/tablet giving leverage for Digital Payments and/or Banking Correspondent services. Besides, it is also requested to consider integrating IRIS scanners and electronic weighing scales with ePoS/Tablet devices on priority.

4. The norms and pattern of Central Assistance to States/UTs for FPS automation shall be as per the rules under NFSA.

With regards,

Encl: As above

Yours sincerely,

(S Jagannathan)

To,
Principal Secretary/ Secretary,
Department of food & Civil Supplies,
(All States/UTs)

Copy to :

1. PSO to Secretary, DFPD.
2. EA, NFSA

Copy also to: 1. CEO, UIDAI, New Delhi.
2. Shri Amarnatha Mishra, DDG, NIC, New Delhi.

Suggestive minimum technical specifications for Tablet devices

S.No.	Description	Minimum suggested specifications
1	Processor Speed	1.1 GHz Dual Core or higher ARM /x86processor or equivalent
2	Operating System	Android 10.0 or higher (Latest stable version)
3	RAM	2GB or higher
4	Inbuilt Storage (Memory)	8 GB or higher
5	Expansion Slot	Micro SD slot to support SD card with minimum 8 GB high speed SD Card. Slot should be able to support up to 32 GB.
6	Connectivity (Communication)	Device should support 2G/3G/4G, GPRS and Wi-A, should support GPS feature
7	External Keyboard support/Interface (optional)	Device should support keyboard through USB or Bluetooth interface.
8	USB ports	At least one free USB port shall be available after setting up the entire solution including peripheral devices and Fingerprint, IRIS device, Weighing Scale, Magnetic Payment reader etc.
9	Display	7" inches or higher scratch resistant multi point capacitive touch screen with minimum WSVGA resolution (1024 X 600)
10	Battery	Swappable & Dry/Rechargeable, li-ion or li Polymer battery capable of providing minimum 8-10 hours of operation while all function of device active i.e. battery capacity of 5000mAH or above
11	Power Adapter (Charger)	Charger with surge protection and operating range 100 to 240V, 50Hz. AC input Charging point - DC or USB
12	SIM & SAM slot	Dual GSM SIM slot support 4G/ 3G/ 2G/GPRS and Dual SAM slots for software up-gradation in device. OR Single GSM SIM slot support 4G/ 3G/ 2G/GPRS with eSIM and Single SAM slot with Virtual SAM may be allowed
13	Printer	Integrated or external 2" or higher printer (Thermal/Non-Thermal Printer)
14	Audio	Good quality Speaker with 1W or higher output for announcements.
15	Biometric Sensor	Aadhaar enabled fingerprint scanner and IRIS scanner with STQC and UIDAI certification are both mandatory. Internal or external.



S.No.	Description	Minimum suggested specifications
16	Magnetic Payment Card Reader for digital payment (Optional)	As per PCI (Payment Card Industry) Security Standards and EMV Standards. All Mastercard, VISA and RuPay cards should be accepted by the reader for payment.
17	Support to connect Weighing Scale	Availability of connectivity feature of weighing scale through USB or Bluetooth
18	Indicators	Status indicator provides ease of use, Indicators for connectivity (presence/absence), signal strength, battery status etc.,
19	Other Accessories	Durable carry case and user manual etc. The Tablet device, Single fingerprint scanner and Printer should be integrated in rugged casing. The casing should be made of inflexible, solid material and can be of polycarbonate/thick plastic / acrylic / other tough material. The complete device incl. casing should be portable, handy and easy to use.
20	Terminal Management	Device should be remotely manageable in secured mode
21	Environment & Security	Should be virus protected Dry heat test- Operating (50 ±2°C for 2 hrs) Cold test – Operating (0 ±3°C for 2 hrs) Dry heat test (55 ±2°C for 2 hrs) Damp heat Cyclic (40°C for (12+12 hrs)), No. of cycles : 2 Cold Test (-10 ±3°C for 2 hrs) Drop/Free Fall Test, in unpacked, switched off and normal handling conditions (Height : 100mm, Total no. of falls : 2) Vibration Test should be in packed condition, switched off conditions (10-150Hz, 0.15mm/2g, 10 sweep, cycles/axes) Bump test should be in packed condition, switched off condition.(1000Bumps, 40g, in vertical position)
22	Antenna	The device must have a slot to connect an external antenna. While, the procurement of antenna is depending on the requirement of the State, which will be used in remote locations and hilly areas for better signal reception and seamless transactions
23	Warranty	Suitable Warranty support
24	Certification	RoHS (Restriction of Hazardous substance) CE or UL
25	Camera Barcode Reader (Optional)	Capable of reading 1D line barcode and QR codes using 5Mp auto-focus camera
26	Sensors	Accelerometer, Ambient light sensor

Suggestive minimum technical specifications for ePoS devices

S.No.	Description	Minimum suggested specifications
1	Processor	-High performance Processor with speed of 1GHZ or above capable of performing at least 10 transactions per minute in laboratory environment. -Processor should be capable enough of performing fingerprint authentication with AUA/ASA/UIDAI servers
2	OS	Linux OS (Latest stable Kernel)/Android 10.0 or higher/Windows (Latest stable version). Device operating system which supports HTML5 based web browser ,CSS 3,Java Scripts
3	Memory	-1GB RAM (for Linux) and 2GB RAM (for Android 10.0/Windows) -8 GB or higher In-built Storage (Flash Memory)
4	Expansion Slot	Micro SD slot with minimum 8 GB high speed SD Card. Slot should be able to support up to 32 GB.
5	Communication	Should support 2G, 3G, 4G/LTE or above, Wi-Fi, Ethernet and Bluetooth. Device should support GPS feature
6	Interface	USB 2.0 or higher At least one free USB port shall be available after setting up the entire solution including peripheral devices and Fingerprint, IRIS device, Weighing Scale, Magnetic Payment reader etc.
7	Display	3.5 inch or higher color TFT Display supporting QVGA (320 x240) or better resolution and 64K or higher colors
8	Key Pad	Qwerty keypad or Minimum 16 alpha numeric keypad with navigation keys, keys size to be large enough for navigation
9	Battery	Swappable & Dry/Rechargeable, li-ion or li Polymer battery capable of providing minimum 8-10 hours of operation while all function of device active i.e. battery capacity of minimum 2600mAH (for Linux) and minimum 4000mAH (for Android)
10	Power Adapter	Power Adaptor with surge protection and operating range 100 to 240V, 50Hz. AC input
11	SIM & SAM slot	Dual GSM SIM slot support 4G/ 3G/ 2G/GPRS and Dual SAM slots for software up-gradation in device. OR Single GSM SIM slot support 4G/ 3G/ 2G/GPRS with eSIM and Single SAM slot with Virtual SAM may be allowed
12	Printer	Integrated 2" or higher printer (Thermal/Non-Thermal Printer)
13	Audio	Good quality Speaker with 1W or higher output for announcements
14	Fingerprint Scanner	Aadhaar enabled fingerprint scanner and IRIS scanner with STQC and UIDAI certification are both mandatory.
15	Magnetic Payment Card Reader for digital payment (Optional)	As per PCI (Payment Card Industry) Security Standards and EMV Standards. All Mastercard, VISA and RuPay cards should be accepted by the reader for payment.

S.No.	Description	Minimum suggested specifications
16	Support to connect Weighing Scale	Availability of connectivity feature of weighing scale through USB or Bluetooth
17	Status Indications	Status indicator provides ease of use, Indicators for connectivity (presence/absence), signal strength, battery status etc. Device Health Monitoring System Indicator may also be included (Optional)
18	Other Accessories	Durable carry Case, User Manual
19	SDK	Appropriate SDK need to be provided along with the devices
20	Terminal Management	Device should be remotely manageable in secured mode
21	Environment, Health & Safety Durability, Humidity, EMI/EMC Compliance	Dry heat test- Operating ($50 \pm 2^{\circ}\text{C}$ for 2 hrs) Cold test – Operating ($0 \pm 3^{\circ}\text{C}$ for 2 hrs) Dry heat test ($55 \pm 2^{\circ}\text{C}$ for 2 hrs) Damp heat Cyclic (40°C for (12+12 hrs)), No. of cycles : 2 Cold Test ($-10 \pm 3^{\circ}\text{C}$ for 2 hrs) Drop/Free Fall Test, in unpacked, switched off and normal handling conditions (Height : 100mm, Total no. of falls : 2) Vibration Test should be in packed condition, switched off conditions (10-150Hz, 0.15mm/2g, 10 sweep, cycles/axes) Bump test should be in packed condition, switched off condition.(1000Bumps, 40g, in vertical position)
22	Add-On Antenna	The device must have a slot to connect an external antenna. While, the procurement of antenna is depending on the requirement of the State, which will be used in remote locations and hilly areas for better signal reception and seamless transactions
23	Device Form Factor	The device should be portable and handy
24	Warranty	Suitable Warranty support