OFFICE OF THE
CHIEF ADMINISTRATIVE OFFICER/PTS,
STATE ENTRY ROAD, NEW DELHI-110055
*****

No. CAO/PTS/142/Est./Pan India/HHT/TTE/2022   Date: 24/01/2024

Principal Chief Commercial Manager (s)
(All Zonal Railways)

Sub: Latest Technical Specification of Hand Held Terminals (HHTs) for Ticket checking staff.
Ref: GM/ PMS/ CRIS letter no. 2022/ CRIS/ NDLS-HQ/ PMS/ PROJECT/ HHT/ 0161/ PT-4 dated 15.01.2024.

        CRIS, vide above reference (copy enclosed), has provided the Latest Technical Specification (comparison with current specifications) for Hand Held Terminals issued to Ticket checking staff across Indian Railways, a copy of which is enclosed, for Zonal Railways to take further necessary action.

Encl: As above.

                               Digitally Signed by S.
                               Jagannathan
                               Date: 24-01-2024 16:25:52
                               Reason: Approved

                                       (S. Jagannathan)
                          Chief Administrative Officer/PTS

Copy to:
    1. MD/CRIS, New Delhi.

रेलवे सूचना प्रणाली केन्द्र

(रेल मंत्रालय भारत सरकार का संगठन)

CRIS   **CENTRE FOR RAILWAY INFORMATION SYSTEMS**
(An Organisation of the Ministry of Railways, Govt. of India)

No.2022/CRIS/NDLS-HQ/PMS/PROJECT/HHT/0161/PT-4   Dt: 15.01.2024

Chief Administrative Officer/PTS,
Northern Railway,
State Entry Road,
New Delhi – 110055.

Subject: Regarding Latest specification of Hand Held Terminal (HHT).
Ref: 1). Letter No CAO/PTS/142/Est./Pan India/HHT/TTE/2022 Dt: 04.12.2023.
      2). Letter No. C549/15/HHT/E2231 Dated : 21 Dec 2023.

     With reference to your office letters mentioned above, Please find the Latest Technical Specification (comparison with current) for HHT Device. This is for your kind information and necessary action.

Regards,

(C.L. Sah)
General Manager/PMS

Encl.: As above.

Copy to :
Sh Sanjay Srivastav, Dy. CCM (G), Office of the Principal Chief Comm. Manager, IInd floor, Station Building, Church Gate, Mumbai – 400020

Technical Specifications of HHT Device

S.No.	Item	Old Specifications	Suggested Updated Specifications
1.	CPU	Processor Quad Core 2.0 GHz or more	Processor Quad Core 2.0 GHz or more
2.	Display	a. 8 Inch diagonal b. Multi-touch screen (capacitive) c. 1280*800 Min. screen resolution d. Screen daylight readable(350 NITS), or higher	a. 8 Inch diagonal b. Multi-touch screen (capacitive) c. 1280*800 Min. screen resolution d. Screen daylight readable(350 NITS), or higher
3.	Memory	Minimum 2 GB RAM.	Minimum **3 GB** RAM.
4.	ROM/NAND flash	Minimum 16 GB	Minimum **32 GB**
5.	Expansion Memory slot	Inbuilt Memory Expansion slot for micro SD memory card 32 GB	Inbuilt Memory Expansion slot for micro SD memory card expandable to 256 GB
6.	Input	a. Touch screen (soft key board)	a. Touch screen (soft key board)
7.	Integrated Device Network Connectivity	a. WLAN: 802.11b/g/n. b. WPAN: Bluetooth 4.0 or higher. c. WWAN: 4G d. Autonomous GPS/Assisted GPS e. Should support phone calling as well as SMS service	a. WLAN: 802.11b/g/n. b. WPAN: Bluetooth 4.0 or higher. c. WWAN: 4G d. Autonomous GPS/Assisted GPS e. Should support phone calling as well as SMS service
8.	Battery	a. Li-Ion/Li-polymer battery with 4800 mAh or higher with minimum 8 Hrs backup. b. Recharging through standard Mobile re-charging points through Indian Power connectors.	a. Li-Ion/Li-polymer battery with **5000** mAh or higher with minimum 8 Hrs backup. b. Recharging through standard Mobile re-charging points through Indian Power connectors.
9.	Operating System	Android 11.0 and above	Android 11.0 and above
10.	Rear Camera for QR Bharat QR code	Minimum 8 Megapixels	**Minimum 8 Megapixels Rear Camera + 5 Megapixels Front Camera**
11.	Accessories	a)AC adapter with power cable & charger b) Covers of Polycarbonate – TPU (Thermoplastic polyurethane) c)Tempered glass screen guard d)Adjustable hand strap for better grip e)Shoulder-hanging strap/belt pouch	a)AC adapter with power cable & charger b) Covers of Polycarbonate + TPU (Thermoplastic polyurethane) c)Tempered glass screen guard d)Adjustable hand strap for better grip e)Shoulder-hanging strap/belt pouch
12.	Product acceptability Scenario	The offered device will be accepted only after sample is successfully tested in working scenario	The offered device will be accepted only after sample is successfully tested in working scenario
13.	Cables & connectors	All required cables & connectors are to be provided	All required cables & connectors are to be provided
14.	Spare Parts	All spare parts (including battery and adapter) should be available with OEM up to 3 years from the date of commissioning.	All spare parts (including battery and adapter) should be available with OEM up to 3 years from the date of commissioning.
15.	Comprehensive Warranty & Services	1 Year Comprehensive OEM Warranty.	1 Year Comprehensive OEM Warranty **including battery.**
16.	Dimensions and weight	Maximum Weight: 500 gm (device unit only).	Maximum Weight: 500 gm (device unit only).
17.	Support for printers	Should support all Bluetooth supported printers	Should support all Bluetooth supported printers
18.	USB	The device Should have Micro USB/Type C port and audio jack port	The device Should have **Type C** port and audio jack port
19.	Certifications (Details of the relevant certificate number and the name /ID of corresponding notified Bodies shell be provided) Additional OEM Certifications	BIS	BIS, **CE, RoHS, FCC, CB, EPR** ISO 9001: 2015, ISO 14001:2015, ISO/IEC 20000-1:2018