

Office of the
Chief Administrative Officer/PTS
State Entry Road, New Delhi-110055

No. CAO/PTS/138/PTLB/2021

Date: 04.11.2022

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

Sub: Latest Specifications of TTE lobby equipment's.

Ref: 1. CRIS letter No. 2021/CRIS/NDLS-HQ/PMS/PROJECT/0261/PT-1 dated 02.11.22.
2. This office letter number dated 30.09.2022.

In order to procure Thin Client, UPS, DMP Printer & Biometric devices for computerization of TTE lobbies under the work of "**Proliferation of computerized TTE Lobbies over Indian Railways**", latest specifications of Thin Client, UPS & DMP Printers given by CRIS are enclosed for needful action in the matter. Regarding Biometric devices, specifications are under development & integration and therefore will be given subsequently.

In view of the above, Zonal Railways are requested to procure Thin Client, UPS & DMP Printers for computerization of TTE lobbies across Indian Railways at the earliest. Action taken in this regard may be advised to this office .

Encls: As above.

Digitally Signed by Sudhir
Kumar Tyagi
Date: 04-11-2022 17:31:20
Reason: Approved

(Sudhir Kumar Tyagi)
Chief Administrative Officer/PTS

Copy for kind information to:

1. ED (PM) & ED(C&IS), Railway Board, New Delhi.
2. GM/PMS, CRIS, Chanakyapuri, 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)

2021/CRIS/NDLS-HQ/PMS/PROJECT/0261/PT-1

Date: 02-11-2022

Chief Administrative Officer /PTS,
State Entry Road, IRCA Building,
New Delhi-110055

Sub:- To provide specifications of hardware to computerized TTE Lobbies.

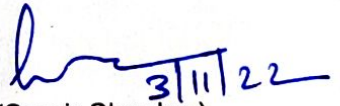
Ref: - 1) Your office letter no.CAO/PTS/138/PTLB/2021 dated 13.10.2022.
2) CRIS letter of even no. dated 05.11.2021

With reference to above referred letter regarding specification of peripheral equipments of TTE lobbies to be procured by zonal Railways, the specification were shared vide letter under reference (2).

The specifications of Thin Client has been revised with some minor enhancements e.g. addition of WIFI network and removal of PS2 Port. The specifications of Biometric device will be given after development, its integration with TTE lobby application and successful trial. The updated specification of thin client, UPS and DMP are enclosed herewith.

DA as above

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(Samir Shankar)
GM/PMS

चाणक्यपुरी, नयी दिल्ली-110021
CHANAKYAPURI, NEW DELHI-110021

टेलीफोन/TELEPHONE : 24104525, 24106717 फैक्स/FAX : 91-11-26877893

Technical Specification of peripheral Equipments for TTE Lobby

Thin Client			
S.No.	Item		Specifications
(i)	Design & Architecture		Intel/AMD quad core min. 2GHz or higher latest processor. Solid state design with no moving parts
(ii)	Memory	RAM	4 GB DDR3 RAM
		Flash storage	Min. 32 GB powered Flash or higher
(iii)	Monitor		Min. 18.5" color TFT/LED/LCD with 1280 x 1024 resolutions. Power supply should be from thin-client. In case power supply not from thin client, power strip with min. two 3-pin socket cum switches should be supplied
(iv)	Graphics memory		minimum 16 MB graphics shared memory with support for high resolution monitors up to 1280 x 1024
(v)	Keyboard		OEM/ISO Cert. manufacturer, wired Minimum 104 keys keyboard with USB 2.0(without USB converters)
	Mouse		OEM/ ISO Cert manufacturer, wired 2 button Scroll optical mouse with USB 2.0(without USB converters) with mouse pad
(vi)	Ports		1 VGA, six or more USB port (ver 2.0 and above)(min. two at front) , 1 RJ-45, All ports should be in working condition.
(vii)	Audio		Mic in and Speaker out
(viii)	Printer support		Local and network printers
(ix)	Accessories		One stand for CPU unit (if applicable)
(x)	Networking		Integrated 1 Gigabit LAN card to be configured in DHCP range as advised with device drivers in Windows OS. Integrated Wi-Fi network
(xi)	Power Supply		Built-in power supply. 100-220 VAC, 47-63 Hz, Energy-saving automatic power-down. Supplied thin clients should be able to sustain local electrical problems, spikes, surges and fluctuations. In case of external Power Supply, power cord and adapter should be replaced free of cost in event of non-working condition
(xii)	Operating System		Preloaded with latest Microsoft Windows embedded & latest Internet Explorer which support Java Applet, latest version of Google Chrome browser, Default login should not be administrator login. EWF manager should be installed in OS.
(xiii)	Utilities installation		1) Telnet, ping, Calculator, Acrobat PDF Reader, JVM(java 1.6 or higher) ,FLASH PLAYER 2) Device drivers for supplied other hardware. 3) Latest version of open office/kingsoft office. 4) Utility to generate custom OS image file and transfer to removable device like USB for installation in another thin client. 5)Date/Time disabled for non-administrator user. Time synchronization option from central server on administrator login
(xiv)	Certification		BIS
(xv)	Login		Multi user/Single user logon support locally. Default login should not be administrator login. Administrator login for saving to flash
(xvi)	Warranty & support		3 years on-site



UPS		
Type.		Line interactive.
Technology.		UPS with AVR and PWM.
Output.		
	Output Power Capacity.	600 VA or higher.
	Nominal/Rated Output Voltage.	230 VAC ± 10%.
	Output Frequency (sync to mains).	50 Hz ± 1 Hz.
	Overload Warning/Trip.	Yes
	Overload capacity.	1 Minute for 110%.
	Waveform Type.	Stepped approximation to Sine Wave.
	Output Connections.	4 Numbers Indian Sockets. (Battery Backup and surge protection)
	Power Factor	0.6 or higher
Input.		
	Nominal/Rated input Voltage.	230 VAC Normal (Range 195-255 VAC).
	Input Frequency.	50 Hz up (Auto sensing).
	Input Connections.	India 3 pin, 6A socket.
	Cord Length.	1.00-2.00 meters.
	Input voltage range	160 – 280 VAC.
Batteries & Runtime.		
	Battery Type.	Sealed Maintenance free - SMF.
	No. of battery	Two (Internal)
	Voltage, Ampere.	2x12V, 7AH.
	Protection.	Battery discharge protection.
	Transfer Time.	4-6 milli second.
	Typical recharge time.	8 hours to 90% capacity after complete discharge.
	Typical Backup Time at Full Load.	Minimum 25 minutes
	Make	Exide/ AMCO/ TATA/ OEM Make
Communications & Management	Control panel.	LED status display on: -
		On Mains.
		On Battery.
		On Overload.
	Audible Alarm.	On Battery.
		Battery Low.
		Overload.
Protection and Filtering.	Mains input.	Mains input fuse/Breaker for overload and short circuit.
	Short Circuit.	Fuse/Breaker in Mains mode.
		Electronic cut off in Battery mode.
	Surge.	Protection against surge.
Environmental	Operating Environment.	0 – 40° C.
	Operating Relative Humidity.	0 – 95% non-condensing.
	Audible noise at 1 meter from surface of unit.	< 45 dBA.
Certifications		Certificate from BIS
Warranty and Support		3 year on-site

DOT MATRIX PRINTER				
Sr. No.	Specifications	Description		
(i)	No. of Pins	24 pin 80 column		
(ii)	Printing Method	Serial Impact Dot Matrix		
(iii)	Print Direction	Bi-directional with logic seeking in text and graphic		
PRINT SPEED & DETAILS				
		10 cpi	12 cpi	15 cpi
(iv)	High Speed Draft	300	360	-
(v)	Draft	230	270	-
(vi)	LQ	80	100	-
(vii)	Fonts	Draft, Roman , Sans Serif, Courier, Prestige, Script etc.		
(viii)	Pitch	10, 12, 15,17 and 20 cpi		
(ix)	Drivers support	Windows and Linux OS		
(x)	Input Buffer of data	64 KB		
(xi)	Interfaces	USB 2.0		
(xii)	Emulation	ESC/P		
(xiii)	Noise	55 + / - 5		
Reliability				
(xiv)	MTBF	6000 POH		
(xv)	Life of print head	200 Million strokes / wire		
(xvi)	Ribbon Color	Black		
(xvii)	Ribbon life	Approximately 2million characters		
(xviii)	Operating Temperature	5- 35 0C		
(xix)	Operating Humidity	10% - 80% RH-NC		
Electrical Specification				
(xx)	Input Voltage	AC 220-240 V		
(xxi)	Frequency	5-60 Hz		
(xxii)	Power Consumption	Up to 60W energy star compliant		
(xxiii)	Certification	ISO 9001		
	Accessories	Documentation, Driver CD, power cable, Interface cable etc.		
Warranty & Support		3 years on-site		