



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Shipping, Road Transport & Highways)

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No: 11041/217/2007/Admn

11<sup>th</sup> April, 2007

By E-mail / Courier

### Policy Circular – Administration / Finance(11/2007) (Decision taken on File No. 11013/166/2005/IT of IT Division)

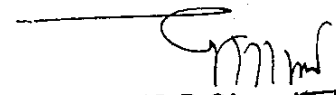
Sub: Procurement of computer hardware and peripherals by the Project Implementation Units.

It has been decided that Project Implementation Unit (PIU) will procure required computer hardware and peripherals locally after following the laid down procurement procedures and guidelines.

2. Before initiating the procurement process, Project Directors will have to take specific approval from the Administration Division at HQ giving information in the format at Annex-I.

3. Procurement will be as per the technical specifications finalised by IT Division at Head-Office. Technical Specifications as on April, 2007 for desktops, server and laser printer is at Annex-II. Since, as per industry practice with passage of time, better specification Computer Hardware and peripherals in lesser price become available, PIU before inviting bids may get confirmation on specifications from IT Division at HQ.

4. Project Directors will be responsible for maintaining stock of the existing and new computer hardware & peripherals. Unserviceable computers will be disposed by the PD after furnishing full details to IT Division and obtaining specific approval for their disposal from Administration Division.

  
(G.P.Chand)  
General Manager (Admn)

To:

All Project Directors  
(As per list)

Copy also for information at HQ:

1. PS to Chairman.
2. All Members
3. All CGMs / GMs

## Existing Computer Hardware

Sl. No.	Equipment with detailed specifications	No.	Year of purchase and Purchase Cost (in Rs.)	Condition	Utilisation

## Proposal for Purchase

Sl. No.	Equipment with detailed specifications	No.	Likely cost (in Rs.)	Justification for purchase and required for

**TECHNICAL SPECIFICATIONS****SPECIFICATION FOR THE DESKTOP AS ON APRIL 2007**

<b>PARAMETER</b>	<b>MINIMUM SPECIFICATION REQUIRED</b>
<b>Microprocessor</b>	Intel® Pentium® 4 processors
<b>Monitor</b>	17" CRT Monitor or 14" TFT Screen
<b>Cache</b>	2 MB
<b>RAM</b>	1 GB RAM
<b>Hard Disk Drive</b>	80 GB or Above with SATA
<b>Optical Drive</b>	DVD Combo
<b>Network</b>	Two PCI – X Gigabit NIC (embedded) 10/100/1000 WOL (Wake on LAN)
<b>Interfaces</b>	Serial 1 USB 8 Graphics 1 Pointing Device 1 Key Board 1 Management Port 1 (Ethernet) LPT Port 1
<b>Key Board</b>	One Keyboard
<b>Mouse</b>	One Mouse Optical
<b>Operating System pre-loaded</b>	Microsoft Vista / Windows XP Professional, Anti-Virus, etc
<b>Warranty</b>	3 Years onsite
<b>Suggested Brand</b>	HP / Compaq, IBM, HCL, Wipro

SPECIFICATION FOR THE SERVER AS ON APRIL 2007

PARAMETER	MINIMUM SPECIFICATION REQUIRED
Form Factor	Rack Mountable (Maximum 5U) or Tower mounted (if rack to keep the server at site is not available)
Processor	Intel Dual-Core Xeon 5130 / 2 GHz or higher
Cache Memory	4 MB L2 cache
Cache Per Processor	4 MB
Chipset Type	Intel 5000Z
RAM	4 GB ECC DDR II SDRAM upgradable to 16 GB
Hard Drive	6 x 72 GB (15 K rpm) HDD, hot-swap with RAID 5 support
Storage Controller	RAID ( Serial ATA-150 / SAS ) - PCI Express x4 ( Smart Array E200i ) ; IDE ( IDE/ATA )
SCSI Controller	Dual Channel U320 & above SCSI Controller
Optical Storage	CD-RW / DVD-ROM combo
DAT drive	36/72 GB DAT drive
Monitor	15" Color Monitor
Networking	Dual Gigabit 10/100/1000 Ethernet
Slots	Atleast 3 PCI Express slots, three 64 bit PCI slots
Interfaces	1 x display / video - VGA - 15 pin HD D-Sub (HD-15) 1 x keyboard - generic - 6 pin mini-DIN (PS/2 style) 1 x mouse - generic - 6 pin mini-DIN (PS/2 style) 1 x serial - RS-232 - 9 pin D-Sub (DB-9) 1 x network - Ethernet 10Base-T/100Base-TX/1000Base-T - RJ-45 6 x USB - 4 pin USB Type A ( 2 front, 2 rear, 2 internal )
Power Supply	Redundant Power Supply (hot-plug)
AC Voltage	AC Voltage: 207 VAC to 253VAC @ 47-63Hz
Warranty	3 Years onsite
Software	Windows 2003 Server, Anti-Virus, etc
Server Management	Server Management Software – with remote management feature onboard
Certifications	ACP V1.0 B Compliant PCI 2.2 Compliant, PXE Support, WOL support, Microsoft Windows 2000/2003, Linux, PCI-X1.0 Compliant
Operating Conditions	Operating Temperature Range: 0° C - 50° C Relative Humidity: 20% - 90%, non-condensing
Suggested Brand	HP / Compaq, IBM, HCL, Wipro

**SPECIFICATION FOR THE B/W LASER PRINTER AS ON APRIL 2007**

<b>PARAMETER</b>	<b>MINIMUM SPECIFICATION REQUIRED (HP 1320)</b>
<b>Print Speed</b>	Up to 22 ppm
<b>First page out, black</b>	Less than 8.5 sec
<b>Processor speed</b>	133 MHz
<b>Monthly volume</b>	10000 pages
<b>Print quality, black</b>	Up to 1200 x 1200 dpi or better.
<b>Paper Input trays</b>	Minimum 1 tray plus manual feed (A4 & Letter Paper Size)
<b>Input capacity</b>	Up to 250 sheets
<b>Output capacity</b>	Up to 125 sheets
<b>Duplex printing (printing on both sides of paper)</b>	Automatic (standard)
<b>Media sizes</b>	Letter, legal, executive, index cards, envelopes (No. 10, Monarch)
<b>Memory</b>	32 MB
<b>Connectivity</b>	USB 2.0, Ethernet 10/100 Mbps RJ – 45
<b>Cables</b>	Power Cord & USB Communication Cable.
<b>Warranty</b>	Three years comprehensive onsite warranty excluding consumables (please give the detailed list of consumables, which will not be covered in warranty). Provide complete item wise list (with part numbers) of printer parts and spares not covered under warranty. All other parts, for which the part numbers do not appear in this list, shall be covered under the warranty.
<b>Printer Driver</b>	Win XP/2000/2003
<b>Suggested Brand</b>	HP, Epson, Cannon