

**GOVERNMENT OF INDIA**  
**(Ministry of Home Affairs)**  
**COMMUNICATION & IT DIRECTORATE**  
**CENTRAL RESERVE POLICE FORCE**  
**EAST BLOCK-7, SEC-1, R.K. PURAM, NEW DELHI-110066**  
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No. B.V-7/2024-25-C-(HPC)-Q

Dated, the 2 June'2025


To

1. The DsG: AR, BSF, CISF, ITBP, NSG, SSB and BPR&D
2. Director, DCPW

**Subject: Regarding QRs/TDs of "HPC (High Performance Computing)"**

I am directed to refer on the subject mentioned above and to say that the QRs/TDs of **"HPC (High Performance Computing)"** has been approved by the DG CRPF after deliberation and recommended by CAPF's sub-group and experts from DCPW.

**Encl:-**As above

  
{Harjinder Singh}  
**DIG (Communication)**  
**Communication & IT Branch**  
**Directorate General C R P F**


No. B.V-7/2024-25-C-(HPC)-Q

Dated, the 2 June'2025

**Copy to:-**

1. Mrs. Sugandhi, Technical Director, North block, MHA with request to upload the QRs/TDs of **"HPC (High Performance Computing)"** on MHA website (e-mail ID: [mpsugandhi@nic.in](mailto:mpsugandhi@nic.in)).

**Encl:-**As above

  
{Harjinder Singh}  
**DIG (Communication)**  
**Communication & IT Branch**  
**Directorate General C R P F**

### QRs-TDs of HPC

Sl. No.	Items	Parameters	Trial Directives
1	<b>Head Node</b>	<ul style="list-style-type: none"> <li>• CPU Intel/AMD 2 Nos</li> <li>• Min 24 Core @ 2.9 GHz or more</li> <li>• Cache Min 128 MB</li> <li>• RAM DDR5 Min 512 GB or more (as per user Dept. Requirement.)</li> <li>• Min 2 x 960 GB SSD</li> <li>• RAID Controller</li> <li>• 4 x 1 G Ports</li> <li>• 2 10G Base T Adapter</li> <li>• Single Port InfiniBand HDR 200 G HCA</li> <li>• Redundant Power Supply</li> <li>• ILO Advanced license/ iDRAC Enterprise</li> <li>• Licensed Operating System</li> </ul>	Verification with OEM Tech brochure and Console Software
2	<b>Compute Node</b>	<ul style="list-style-type: none"> <li>• Min 32 Core @ 3.25 GHz or more</li> <li>• Cache Min 256MB</li> <li>• RAM DDR5 Min 768 GB or more (as per user Dept. Requirement)</li> <li>• 2 x 960 GB SSD</li> <li>• RAID Controller</li> <li>• 4 x 1 G Ports</li> <li>• Single Port InfiniBand HDR 200 G HCA</li> <li>• Redundant Power Supply</li> <li>• ILO Advanced license/ iDRAC Enterprise</li> <li>• Licensed Operating System</li> </ul>	Verification with OEM Tech brochure and Console Software
3	<b>GPU Node</b>	<ul style="list-style-type: none"> <li>• Min 32 Core @ 3.25 GHz or more</li> <li>• Cache Min 256MB</li> <li>• RAM DDR5 Min 768 GB or more (as per user Dept. Requirement)</li> <li>• 4 x 1.92 TB NVMe disks</li> <li>• OS level RAID</li> <li>• Min 2 x 1 G Ports</li> <li>• Single Port InfiniBand HDR 200 G HCA</li> <li>• Redundant Power Supply</li> <li>• 4x NVidia H100 80 GB SXM5 GPU</li> <li>• ILO Advanced license/ iDRAC Enterprise</li> </ul>	Verification with OEM Tech brochure and Console Software
4	<b>NFS Storage</b>	<ul style="list-style-type: none"> <li>• Min 16 Core @ 2.9 GHz or more</li> <li>• Cache Min 256MB</li> <li>• RAM DDR5 Min 256 GB or more (as per user Dept. Requirement)</li> <li>• 2 x 500 GB SSD</li> <li>• 12 x 16 TB NL-SAS disks</li> <li>• RAID Controller</li> <li>• 4 x 1 G Ports</li> <li>• Dual 10G base T Ports</li> <li>• Single Port InfiniBand HDR 200 G HCA</li> <li>• Redundant Power Supply</li> <li>• ILO Advanced license/ iDRAC Enterprise</li> <li>• Licensed Operating System</li> </ul>	Verification with OEM Tech brochure and Console Software
5	<b>InfiniBand Interconnect</b>	<ul style="list-style-type: none"> <li>• InfiniBand HDR 40 Ports QSFP56 Switch</li> <li>• InfiniBand HDR 200Gb Cables</li> <li>• 24 x 1 Gb Switch with redundant power supply</li> </ul>	Verification with OEM Tech brochure and Console Software



6	<b>Software Stack</b>	<ul style="list-style-type: none"> <li>Performance Cluster Manager License - 5 Yrs</li> <li>Red Hat Enterprises Linux for HPC Head Node 5 Yr Subscription</li> <li>Red Hat Enterprises Linux for HPC Compute Node 5 Yr Subscription</li> <li>Red Hat Enterprises Linux Server 2 Socket - 5 Yr Subscription</li> <li>Support Subscription for Solution for 5 Years</li> </ul>	Verification with OEM Tech brochure and Console Software
7	<b>Rack &amp; PDU</b>	<ul style="list-style-type: none"> <li>42 U Rack ( 800mm x 1200 mm)</li> <li>2 x 3 Phase 32 A PDUs</li> </ul>	Verification with OEM Tech brochure and Console Software
8	<b>Warranty &amp; Support</b>	5 Years warranty of complete solution with Gold Support	Firm will submit OEM Certificate

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AC(QR), CRPF

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NSG

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