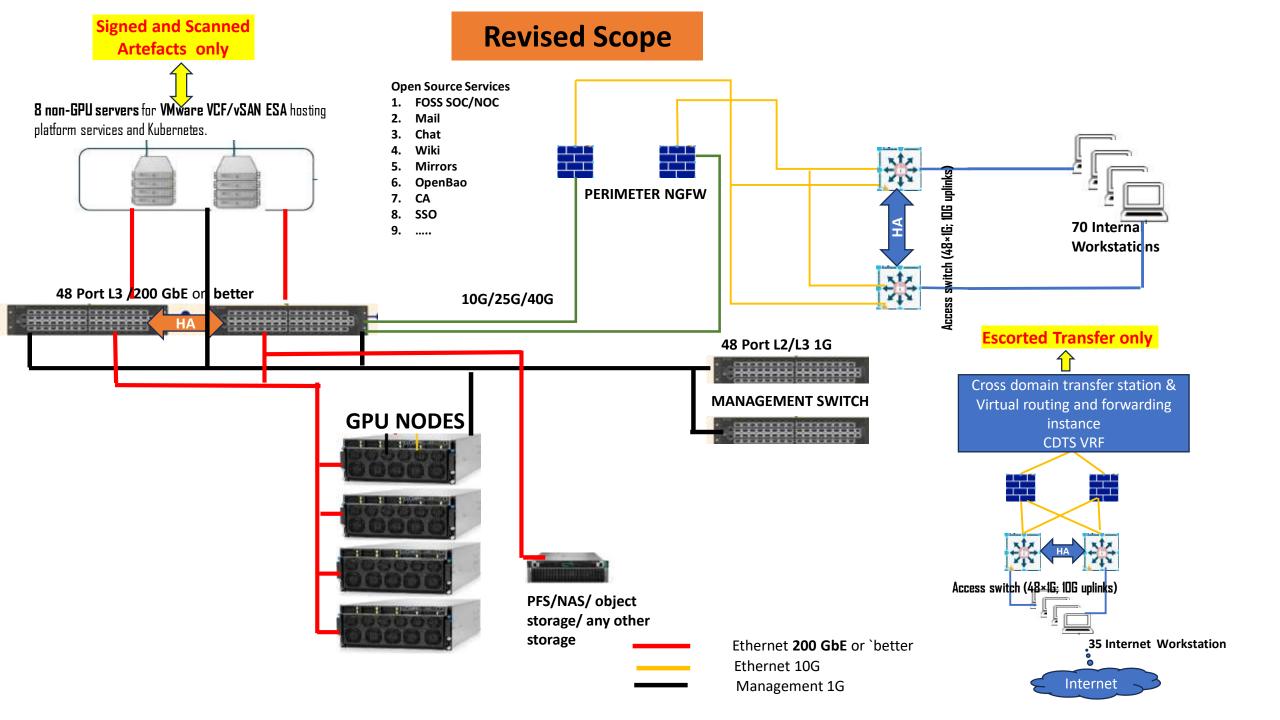# PRE RFP MEETING

Creation of IT Infrastructure for Startup India Grand Challenge with the theme of "Responsible AI for National Security"

16 Sept 2025

Revised Scope

Signed and Scanned Artefacts only

8 non-GPU servers for VMware VCF/vSAN ESA hosting platform services and Kubernetes.

Open Source Services
1. FOSS SOC/NOC
2. Mail
3. Chat
4. Wiki
5. Mirrors
6. OpenBao
7. CA
8. SSO
9. .....

PERIMETER NGFW

48 Port L3 /200 GbE or better

HA

10G/25G/40G

Access switch (48×1G; 10G uplinks)

HA

70 Internal Workstations

48 Port L2/L3 1G

MANAGEMENT SWITCH

Escorted Transfer only

Cross domain transfer station & Virtual routing and forwarding instance CDTS VRF

GPU NODES

PFS/NAS/ object storage/ any other storage

HA

Access switch (48×1G; 10G uplinks)

35 Internet Workstation

Internet

Ethernet **200 GbE** or `better
Ethernet 10G
Management 1G

Key Timeline

Sl. No.	Activity	Timeline
1.	Release of RFP	D Day
2.	Site survey by Bidders	D+4
3.	Last date of receipt of pre-bid queries submission	D+7
4	Pre-bid Meeting date	D+10
5.	Posting of response to queries and release of corrigendum, if any	D+12-14
6	Last date for submission of Bids	D+21
7.	Date of opening of pre-qualification bids	xxxxxxx
8.	Date of opening of Technical Bids	xxxxxxx
9.	Date of opening of Commercial Bids	xxxxxxx

Summary of HW (3Years Warranty + 3 years EoL support)

Tower	Item	Qty
GPU Compute* 3 Years warranty+2 years EoL	GPU server (2x56 cores @2.1 Ghz, 2048GB RAM, 8× H200 141 GB SXM5; 2×200 GbE)	4
Non GPU Servers	2x32 cores@2.1Ghz, 512 GB RAM, 40–48 TB raw per node (NVMe)	8
Virtualisation/Platform	VCF/vSAN ESA server (all-NVMe)	512 Cores
PFS Storage	100 TB at least 200 Gbps throughput with NVMe disks (20% of100TB) Low latency and Scalable	1
Switching – Core	DC leaf/L3 switch (200 Gbe or better)	2
Switching – Access (Enclave)	Access switch (48×1G; 10G uplinks)	2
Switching – Access (Internet LAN)	Access switch (48×1G; 10G uplinks)	2
Switching – Management/OOB	Management/OOB switch (48×1G)	2

Summary of HW

Tower	Item	Qty
Firewalls – Perimeter	Secure Firewall (FTD) – HA pair	2 (1 HA pair)
Firewalls – Intranet (ISFW)	Secure Firewall (FTD) – HA pair	2 (1 HA pair)
CDTS Enclave	CDTS scanning server	2
CDTS Enclave	CDTS management/ops server	1
Time & DNS	GPS Stratum-1 NTP appliance (dual PSU)	1
Time & DNS	GPS outdoor antenna + surge kit + cabling	1 lot
End-User Compute	Internet GPU workstations (RTX 4000 or 770 class)	36
End-User Compute	Enclave standard workstations	74
Media for Cold Export	Encrypted removable HDDs (≥ 12 TB)	12/yr + 2 spares
Optics/Cabling	QSFP56 200G modules/DACs, QSFP-DD 400G leaf optics, SFP+/SFP28 where needed, OM4/OS2 fibre, Cat6A copper	As per detail
Software/Subscriptions	VMware VCF licences (8 nodes),UTM/ FTD licences (Perimeter + ISFW), support	As per detail
Services	Build & integration WPs, training, hypercare	1 lot
O&M	Resident Engineers (8×5 and 24×7 options)	As per model
Spares	Server/optics/NIC/PSU spares kit	1. lot

Software, Subscriptions & Support: Paid/FOSS

- **VM ware**: **VMware Cloud Foundation (VCF)** licences for **8 nodes (512 Cores)** (include vSAN ESA) with **Support & Subscription** for one year

OR

Open stack maybe considered for virtualization along with professional support for management without compromising operations

- **Security**
  - **Perimeter Firewall HA pair** subscriptions: **Threat/IPS**, **URL Filtering**, **DNS Security** (term 1–3 years), with OEM support
  - **ISFW HA pair** subscriptions: **Threat/IPS** (URL/DNS filtering optional internally), with OEM support

Software, Subscriptions & Support : FOSS

Sno (A)	Services (B)	FOSS (C)	Purpose (D)
(i)	GPU Management	Kubernetes + NVIDIA Device Plugin	The foundation for container orchestration and exposing GPU resources to the cluster.
		NVIDIA KAI Scheduler or ClearML	Provides a fair-share scheduling policy, resource guarantees, and fractional GPU allocation for multiple users.
		NVIDIA DCGM	Monitors GPU health, performance, and provides diagnostics for datacenter GPUs.
(ii)	Application Server	Apache HTTP Server or Nginx, Node.js, Django (Python)	Hosts web applications, APIs, and other software applications.
(iii)	Management Server	Prometheus + Grafana	Provides a complete observability platform for monitoring system metrics, creating dashboards, and alerting on anomalies.
		Ansible or Puppet	Automates the deployment and configuration management of all servers.
(iv)	Database Server	MySQL, PostgreSQL, MariaDB	Manages relational databases to store and retrieve application data.
		MongoDB, Cassandra	Manages NoSQL databases for unstructured data.

Software, Subscriptions & Support : FOSS

Sno (A)	Services (B)	FOSS (C)	Purpose (D)
(v)	Domain Management Server	FreeIPA or OpenLDAP	Provides centralized identity management and authentication services for all users and services.
(vi)	Email Server	Postfix + Dovecot + Rspamd	A modular stack for sending, receiving, and filtering emails.
		Mailu	An all-in-one, easy-to-deploy email server solution.
(vii)	Collaboration Suite Server	Nextcloud	Offers file hosting and sharing, calendars, and contacts.
		Rocket.Chat or Mattermost	Provides real-time team chat and collaboration features.
(viii)	Cyber Security • SIEM & HIDS • Network Security	Wazuh	Acts as a central security information and event management system to collect and analyze security logs from all endpoints, while also providing host-based intrusion detection.
		Suricata or Zeek	Provides a network-based intrusion detection system (NIDS) to monitor network traffic for malicious activity and security policy violations in real time.

DETAILS OF BILL OF MATERIAL HARDWARE. SOFTWARE AND OPERATIONS COST

SNo	Description	Item	Qty	Supplier/ make or Model/Version	UoM	Cost (Exclusive of Taxes)	Net Amount
1	GPU Compute	GPU server (2x56 cores @2.1 Ghz, 2048GB RAM, 8× H200 141 GB SXM5; 2×200 GbE)	4		No		
2	Non GPU Servers	2x32 cores@2.1Ghz, 512 GB RAM, 40–48 TB raw per node (NVMe)	8			1.	
3	Virtualisation/Platform	VCF/vSAN ESA server (all-NVMe)	512 Cores				
4	Switching – Core	DC leaf/L3 switch (upto 400G-capable)	2				
5	Switching – Access (Enclave)	Access switch (48×1G; 10G uplinks)	2				
5	Switching – Access (Internet LAN)	Access switch (48×1G; 10G uplinks)	2				
6	Switching – Management/OOB	Management/OOB switch (48×1G)	2				
7	Firewalls – Perimeter	Secure Firewall (FTD) – HA pair	1 Pair				
8	Firewalls – Intranet (ISFW)	Secure Firewall (FTD) – HA pair	1 Pair				
9	CDTS Enclave	CDTS scanning server	2				
10	CDTS Enclave	CDTS management/ops server	1		2		
11	Time & DNS	GPS Stratum-1 NTP appliance (dual PSU)	1				
12	Time & DNS	GPS outdoor antenna + surge kit + cabling	1 lot				

DETAILS OF BILL OF MATERIAL HARDWARE. SOFTWARE AND OPERATIONS COST

SNo	Description	Item	Qty	Supplier/ make or Model/Version	UoM	Cost (Exclusive of Taxes)	Net Amount
13	End-User Compute	Internet GPU workstations (RTX 4000 or 770 class)	35				
14	End-User Compute	Enclave standard workstations	70				
15	Conference room	LED TV, Camera and audio (Speaker Microphone)	2 each				
16	Media for Cold Export	Encrypted removable HDDs (≥ 12 TB)					
17	Optics/Cabling	QSFP56 200G modules/DACs, QSFP-DD 400G leaf optics, SFP+/SFP28 where needed, OM4/OS2 fibre, Cat6A copper	As per detail				
18	Software/Subscriptions	VMware VCF licences (8 nodes), UTM/FTD licences (Perimeter + ISFW), support					
19	Services	Build & integration WPs, training, hypercare					
20	O&M	Resident Engineers (8×5 and 24×7 options)					
21	Spares	Server/optics/NIC/PSU spares kit					
22	PDUs	7.2 KW X 4 PDUs for 4 racks (CHECK)					

Pre Qualification

Sno	Criteria	Criteria Description	Sno	Criteria	Criteria Description
1	Legal Entity	(A) A company registered in India under Indian Companies Act, 1956 OR (B) A partnership firm registered under Indian Partnership Act, 1932. OR (C) Limited liability partnership company (LLP) under Indian LLP act 2008.	5	Certifications	The Prime bidder and/or its consortium partner should have followed certification: 1. Valid ISO 9001:2015 or latest 2. Valid ISO 27001:2013 or latest
2.	Financial Turnover	The average annual turnover of the Prime Bidder and/or its consortium partner jointly during the last 3 financial years ending with year 2024-25 should not be less than INR 35 Crores from Govt./ PSU/ BFSI/ telecom/ Enterprise Infrastructure Projects (as per the last published audited balance sheets	6	Mandatory Undertaking	Bidder should: a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons; b) Not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings; c) Not have a conflict of interest in the procurement in question as specified in the bidding document. d) Comply with the code of integrity as specified in the bidding document.
3	Financial: Net Worth	The net worth of the Prime Bidder and its consortium partner in the last three financial year (asper the last published audited balance sheets), should be 'Positive' in each financial year.			
4	Technical Capability	During the last Five years, the Prime bidder should have implemented and completed similar project (Similar work means handled Creation of datacenter, storage, compute , NW security…) along with Information technology products supply installation for a reputed Govt./ PSU/ BFSI/ telecom/ Enterprise / Integrated Command Control Centre/ Data Centre (DC) / Network Operation center (NOC) with Single order of value 15 Crore or more, OR Two orders each having value of 8 Crores or more, OR Three orders each having value of 6 Crores or more.	7	Manpower Strength	The Prime Bidder and its consortium partner should have at least 10 IT professionals on its rolls as on 31st March 2025.
			8	Local Presence	Prime Bidder must have a functional office in Delhi operating since last 5 years.

Key Financial

- Bidders shall submit, an EMD of Rs. 25 Lakhs , in the form of bank guarantee issued by any nationalized/scheduled commercial bank in favour of FITT, payable at NEW DELHI, NEW DELHI

- **A sum equal to 5%-of the bid value with respect to items + GST and applicable taxes. Performance Bank Guarantee should be valid up to 60 days beyond the date of successful completion of the Grand Challenge i.e. till 31st Dec 2026**

- The contracted goods shall be insured by the SI in favour of the FITT/NCIIPC on the terms and condition and insurance to the amount equal to 110% of value of bid on all risk basis upto the premises of the Purchaser.