NATIONAL MEDICAL COMMISSION

(Ministry of Health & Family Welfare, Government of India)

Pocket- 14, Sector – 8, Dwarka Phase -1, New Delhi – 110077, INDIA

Phone: +91-11-25367035, 25367036, Fax: +91-11-25367024

EXPRESSION OF INTEREST

FOR

Onboarding of System Integrators for Video Surveillance System DMMP-2 (Digital Mission Mode Project) project

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Invitation for the Expression of Interest (EOI) for onboarding of the interested System Integrators for Video Surveillance System DMMP-2 (Digital Mission Mode Project) project

1. About NMC

The National Medical Commission (NMC) has been constituted by an act of Parliament known as National Medical Commission Act, 2019 which came into force on 25.9.2020 by gazette notification dated 24.9.2020. The Board of Governors in supersession of Medical Council of India constituted under section 3A of the Indian Medical Council Act, 1956 stands dissolved thereafter.

The Aim of the National Medical Commission are to:

i. improve access to quality and affordable medical education.
ii. ensure availability of adequate and high-quality medical professionals in all parts of the country.
iii. promote equitable and universal healthcare that encourages community health perspective and makes services of medical professionals accessible to all the citizens.
iv. encourages medical professionals to adopt latest medical research in their work and to contribute to research.
v. objectively assess medical institutions periodically in a transparent manner.
vi. maintain a medical register for India.
vii. enforce high ethical standards in all aspects of medical services.
viii. have an effective grievance redressal mechanism.

2. About DMMP-II

NMC has implemented a surveillance system to monitor education quality and infrastructure standards at colleges through a Digital Initiative (Digital Mission Mode Project) DMMP having following points in consideration:

a. Live Streaming of both Classrooms Teaching and Patient Care facilities in the teaching hospitals, enabling NMC to maintain a constant vigil on the Standard of Medical Education/Training being imparted.
b. To ensure that the faculties are taking the classes regularly.
c. Monitoring uses of unfair means by students/faculties during examinations.
d. Making use of video evidence in dispute/grievance resolutions.

e. To monitor the patient footfall in medical colleges.

f. Monitoring other activities as per requirement.

Following is the numbers of colleges and cameras integrated:

S. No.	Number of colleges integrated	Number of cameras integrated
1	Approx 668	Approx 5,200

Following is the numbers of colleges and cameras proposed in next 5 years:

S. No.	Number of colleges proposed	Number of cameras proposed
1	Approx 850 (in next 5 years)	Approx 20,000 (in next 5 years)

3. Instructions to Proposers/SIs:

1. The application submitted by "Proposer(s)" shall be treated as private and confidential documents, where 'NMC' accepts the application.
2. The Proposer(s) agency/organization should be a company/origination registered under Indian Companies Act 1956/Society Act, 1860/Authorized government body. The agency/organization should have been in existence for a period of at least 5 years on the date of application as evidenced by the Certificate of Incorporation issued by the Registrar of Companies, India/Government Authority.
3. The Proposer(s) must have Previous experience in executing similar kind of work in association with a Central/State Government/PSU/Government Banks and Financial Organizations.
4. The Proposer(s) must include the Timelines for Project Execution (major milestones) in technical presentation.
5. This EOI does not commit 'NMC' to award a contract or to engage in negotiations. Further, no reimbursable cost may be incurred in anticipation of award or for preparing this EOI.
6. The responsibility for ensuring that the applications are delivered in time vests with the "Proposers".
7. 'NMC' reserves the right to accept or reject any or all EOIs at any point of time without assigning any reason whatsoever.
8. The Authority may at its sole discretion extend the deadline for the submission of proposals.
9. The Proposer(s) must ensure that Cloud Service Provider has its Physical Servers in India only and data must not be shared, transferred, copied and/or used outside Republic of India by any means.
10. The Proposer(s) must ensure that Cloud Service provider is enlisted/empaneled as Authorized Service Provider with MEITY (Ministry of Electronics & Information Technology).
11. For any clarifications on the Expression of Interest document, the following may be contacted through e-mail pankajagrawal@ord.gov.in .
12. The Proposer(s) is required to download the EoI document from the NMC website (www.nmc.org.in). The complete document is required to be signed on each page along with the company / Proposer's seal and submitted along with the Technical Presentation.
13. The Proposer(s) is required to send their proposals in Sealed Envelope to "The Secretary, Pocket- 14, Sector – 8, Dwarka Phase -1, New Delhi – 110077, INDIA".

4. Scope of Work

National Medical Commission (NMC) is inviting proposals from competent System Integrators (SI) with state-of-the-art VMS and solution to integrate with Existing Video Surveillance System (DMMP-2 (Digital Mission Mode Project)) project. The SIs are required to share their Technical Proposal & Solution Architecture followed by Technical Presentation to NMC within 10 days from the date of publication of this EOI. NMC shall send separate invite for Technical Presentation at suitable time to the proposers after receiving the Technical Proposal & Solution Architecture.

The system implemented shall act as complete solution to respond to situations/incidents and monitor effectively, aiding faster decision making and act as a great learning for better surveillance of education quality and infrastructure standards at colleges at real time. The system is expected to have functions as below:

a. Centrally monitorable surveillance system
b. Video Capturing System with facial recognition and Head Count (fixed locations) and monitoring
c. Integration of new and existing cameras with VMS (Video Management Software)
d. Integration of existing Camera Monitoring System in place with the new system
e. Run analytics on the live and/or stored video feeds and prepare reports.

The proposed solution shall have following features:

A. System should be scalable (using Cloud, based on metering) to handle approximately Twenty Thousand (20,000) camera feed and storage without impacting performance of the system.
B. Existing Data Center and Command & Control Center (CCC) at NMC will be used and integrated for Monitoring with new system. Existing setup and storage shall be utilized optimally before taking the space from Cloud Storage (Scalable on metering basis).
C. The solution must comply with latest Information Technology Act including all amendments thereon and all security guidelines as per ISMS (ISO 27001:2022). The proposed Security Systems shall adhere to guidelines issued by NMC & GoI from time to time.
D. The solution must contain Analytics and Dashboard for monitoring & presentation to higher management.
E. The proposed solution shall use minimum bandwidth and the VMS shall be capable to compress the Raw Data by using "High Efficiency Video Coding (HEVC) H.264, H.265 & H.265+" and "Versatile Video Coding (VVC) H.266 and shall be upgradable to latest compression techniques, if any

SI shall perform a detailed assessment of Camera Surveillance System Requirements and propose the infrastructure and software requirements for handling, operating, and monitoring the system and required services. SI shall perform a detailed assessment of existing CCC and setup in conjunction with new system and propose the infrastructure requirement (if any) in the existing setup.

The SI should operate and maintain the entire solution components for a period of Five (5) years from the date of Go-Live. NMC may extend the O&M phase further as per requirement for one year at a time. The O&M is inclusive is but not limited to:

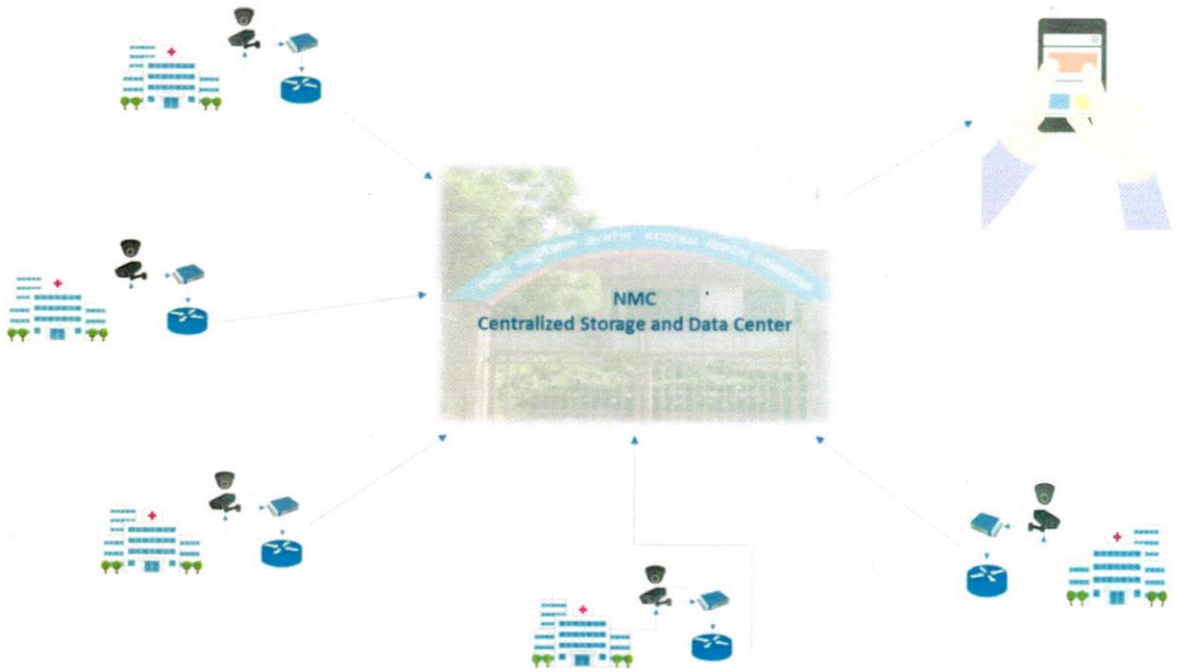
a. Application Maintenance and Support
b. Licensed Software
c. O&M Support for IT Infrastructure (CCC)

The SI shall provide Services management including Network, Security, User Access and control, Server Administration, backup, and recovery etc.

4.1. Existing Scheme of Video Surveillance System (DMMP 2 Project):

At present NMC has following setup for IP Surveillance to monitor defined areas at Centralized Location (NMC):

1. Dedicated Data Center
2. Command and Control Center



NMC has a centralized monitoring system established at NMC Headquarters. The system comprises of a dedicated data center along with Command-and-Control Centre (CCC). The data center has 4.5 Petabytes of storage capacity. CCC is equipped with video wall and seating capacity of 25 persons including support helpdesk and monitoring operations. The live feed from the colleges (pan India) is coming to NMC Servers through VPN Tunneling where it has been analyzed and stored. Stored data is being purged after 30 days on FIFO Basis.

Installation and Maintenance of the Field Equipment (Cameras, Router, Switches) at college end is not in scope of SI. However, SI shall provide the required necessary online and/or offline technical assistance/support to colleges, if required.

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Following is the list of Hardware and Software installed at NMC Data Center and CCC for DMMP-II Project

S. No	Hardware/Software Name	Make/ Brand	Model	Serial Number	Warranty Status (AMC/OEM)	Warranty Valid Till	End of Life Date
1	ASA Firewall	Cisco	ASA5545-FPWR-K9	FTX2147W04U	Active	28-Feb-2024	30-Sep-2025
2	ASA Firewall	Cisco	ASA5545-FPWR-K9	FTX2147W04W	Active	28-Feb-2024	30-Sep-2025
3	Internet Router	Cisco	ASR1001-X	FXS2221Q3K4	Active	28-Feb-2024	31-Jul-2027
4	Internet Router	Cisco	ASR1001-X	FXS2141Q2Y9	Active	28-Feb-2024	31-Jul-2027
5	WAN Router	Cisco	ISR4451-X-AX/K9	FGL2443LDYL	Active	28-Feb-2024	29-Feb-2024
6	WAN Router	Cisco	ISR4451-X-AX/K9	FGL214881EV	Active	28-Feb-2024	29-Feb-2024
7	Nexus Switch	Cisco	N9K-C9504	FOX2145PLBU	Active	28-Feb-2024	Need to confirm with Cisco
8	Nexus Switch	Cisco	N9K-C9504	FOX2146PTRE	Active	28-Feb-2024	Need to confirm with Cisco
9	Prime Infrastructure	Cisco	UCS C220 M4	FCH2141V1FE	Active	28-Feb-2024	Not Yet Announced
10	Prime Infrastructure	Cisco	UCS C220 M4	FCH2121V2CX	Active	28-Feb-2024	Not Yet Announced
11	Access Switch	Cisco	WS-C3650-48TD-E	FDO2146Q079	Active	28-Feb-2024	31-Oct-2026
12	Access Switch	Cisco	WS-C3650-48TD-E	FDO2146Q07B	Active	28-Feb-2024	31-Oct-2026
13	Aggregation Switch	Cisco	WS-C3850-12XS-E	FOC2425X0J3	Active	28-Feb-2024	31-Oct-2025
14	Aggregation Switch	Cisco	WS-C3850-12XS-E	FCW2148F0SZ	Active	28-Feb-2024	31-Oct-2025
15	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2206V03F	Active	28-Feb-2024	29-Feb-2024
16	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QE	Active	28-Feb-2024	29-Feb-2024
17	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0Q8	Active	28-Feb-2024	29-Feb-2024
18	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QD	Active	28-Feb-2024	29-Feb-2024
19	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QA	Active	28-Feb-2024	29-Feb-2024

20	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QN	Active	28-Feb-2024	29-Feb-2024
21	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0LT	Active	28-Feb-2024	29-Feb-2024
22	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QG	Active	28-Feb-2024	29-Feb-2024
23	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QL	Active	28-Feb-2024	29-Feb-2024
24	ESXi Server	Cisco	UCSC-C240-M4SX	FCH2144V0QF	Active	28-Feb-2024	29-Feb-2024
25	Veritas Backup Solution	Veritas	VERITAS Net Backup 5240	VTAS0002790	Active	11-Nov-2023	31-Oct-2025
26	Storage Server	Cisco	UCSS-S3260	FOX2133PL1D	Active	28-Feb-2024	To be confirm with OEM
27	Storage Server	Cisco	UCSS-S3260	FOX2107PBWA	Active	28-Feb-2024	To be confirm with OEM
28	Storage Server	Cisco	UCSS-S3260	FOX2145PAG0	Active	28-Feb-2024	To be confirm with OEM
29	Storage Server	Cisco	UCSS-S3260	FOX2138P6M8	Active	28-Feb-2024	To be confirm with OEM
30	Storage Server	Cisco	UCSS-S3260	FOX2142P3KA	Active	28-Feb-2024	To be confirm with OEM
31	Storage Server	Cisco	UCSS-S3260	FOX2146PHQG	Active	28-Feb-2024	To be confirm with OEM
32	Storage Server	Cisco	UCSS-S3260	FOX2134PAEE	Active	28-Feb-2024	To be confirm with OEM
33	Storage Server	Cisco	UCSS-S3260	FOX2140P1J5	Active	28-Feb-2024	To be confirm with OEM
34	Storage Server	Cisco	UCSS-S3260	FOX2145PAGE	Active	28-Feb-2024	To be confirm with OEM
35	Storage Server	Cisco	UCSS-S3260	FOX2138P6MQ	Active	28-Feb-2024	To be confirm with OEM
36	Storage Server	Cisco	UCSS-S3260	FOX2140P1JS	Active	28-Feb-2024	To be confirm with OEM
37	Storage Server	Cisco	UCSS-S3260	FOX2133PL0L	Active	28-Feb-2024	To be confirm with OEM

38	Storage Server	Cisco	UCSS-S3260	FOX2134PAF4	Active	28-Feb-2024	To be confirm with OEM
39	Storage Server	Cisco	UCSS-S3260	FOX2145PAFY	Active	28-Feb-2024	To be confirm with OEM
40	Storage Server	Cisco	UCSS-S3260	FOX2138P6MA	Active	28-Feb-2024	To be confirm with OEM
41	Storage Server	Cisco	UCSS-S3260	FOX2145PAFC	Active	28-Feb-2024	To be confirm with OEM
42	Storage Server	Cisco	UCSS-S3260	FOX2136PK6G	Active	28-Feb-2024	To be confirm with OEM
43	Storage Server	Cisco	UCSS-S3260	FOX2120P54B	Active	28-Feb-2024	To be confirm with OEM
44	Storage Server	Cisco	UCSS-S3260	FOX2137P5JN	Active	28-Feb-2024	To be confirm with OEM
45	Storage Server	Cisco	UCSS-S3260	FOX2134PAEU	Active	28-Feb-2024	To be confirm with OEM
46	Storage Server	Cisco	UCSS-S3260	FOX2129P0QW	Active	28-Feb-2024	To be confirm with OEM
47	Storage Server	Cisco	UCSS-S3260	FOX2137P5KG	Active	28-Feb-2024	To be confirm with OEM
48	Storage Server	Cisco	UCSS-S3260	FOX2137P5KU	Active	28-Feb-2024	To be confirm with OEM
49	Storage Server	Cisco	UCSS-S3260	FOX2137P5JR	Active	28-Feb-2024	To be confirm with OEM
50	Storage Server	Cisco	UCSS-S3260	FOX2146PHQJ	Active	28-Feb-2024	To be confirm with OEM
51	Storage Server	Cisco	UCSS-S3260	FOX2145PAGC	Active	28-Feb-2024	To be confirm with OEM
52	Storage Server	Cisco	UCSS-S3260	FOX2138P6MR	Active	28-Feb-2024	To be confirm with OEM
53	Link Load Balancer	Array	AVX 3600	1734M0852	Active	8-Apr-2023	Not Yet Announced
54	Server Load Balancer	Array	AVX 7600	1738K0394	Active	8-Apr-2023	Not Yet Announced

55	Antivirus Server	Dell	Dell PowerEdge R230	1Q7TXJ2	Active	29-Nov-2023	Not Yet Announced
56	VSOM	Cisco Customized	Application Software	NA	Active	28-Feb-2024	31-Jul-2023
57	Command and Control Software	Cisco Customized	Application Software	NA	Active	28-Feb-2024	31-Jul-2023
58	VM Ware	VMWare	Virtual Machine	NA	Active	30-Nov-2023	Not Yet Announced

4.2. Points to be incorporated in Technical Proposal:

Following points shall be incorporated by Proposer(s) in their technical proposal:

I. Maximizing NMC's ROI with respect to solution proposed.
II. Understanding of NMC requirement.
III. Optimal utilization of existing NMC setup.
IV. Flexibility of solution using present infrastructure.
V. Accuracy of AI proposed
VI. Deployment model
VII. Ownership w.r.t. SLA, delivery, and compliance

5. Documents to be submitted along with EOI:

A. Technical Proposal & Solution Architecture of the Proposed Solution along with Annexure-I.

B. Company Profile with Certificate of incorporation.

C. Last three years audited financial statement.

D. Details of Experience as System Integrator from similar projects:

S. No.	Project Name	Client	Project Description	Project Duration

Annexure-I

Covering Letter on Letterhead of the Applicant

<Location, Date>

To,

The Secretary,

National Medical Commission,

Ministry of Health & Family Welfare,

Pocket- 14, Sector – 8, Dwarka Phase -1,

New Delhi – 110077, INDIA

Kind Attn. – Mr. Pankaj Agrawal – Director, NMC.

Dear Sir,

We, the undersigned, hereby submitting our Expression of Interest for the collaboration as System Integrators for Video Surveillance System DMMP-2 (Digital Mission Mode Project) project. We understand you are not bound to accept any proposal you receive.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading, we are liable to be dismissed from the EOI selection process or termination of the contract during the project.

We agree to abide by the conditions set forth in this EOI.

We hereby declare that our proposal submitted in response to this EOI is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Sincerely,

<Applicant's Name with seal>

Name: <<Insert Name of Contact>>

Title: <<Insert Title of Contact>>

Signature: <Insert Signature>>