

National Film Archive of India

Ministry of Information and Broadcasting

Government of India

Corrigendum for RFP for Selection of Master System Integrator (MSI) For Implementation of NFAs Enterprise Solution Ref. No: 302/52/2021-NFHM dated November 16, 2021

Attention is invited to the Advertisement on All India basis inviting response to the Request for Proposal for Selection of Master System Integrator (MSI) For Implementation of NFAs Enterprise Solution. The said RFP was also uploaded on the NFAI's website (www.nfai.gov.in) and Procurement website of Government of India (<https://eprocure.gov.in/cppp/>)

This document covers the changes in the schedule details. The Corrigendum shall be construed as a part of the RFP and it shall be the responsibility of the Bidder to read carefully and understand the changes / additions mentioned it.

The rest of the content as mentioned in the RFP shall remain unchanged.

Sd/-

Officer on Special Duty, NFHM

CORRIGENDUM – 7

Tender Reference Number	302/52/2021- NFHM
Tender Title	Request for Proposal for Selection of Master System Integrator (MSI) For Implementation of NFAs Enterprise Solution
Tender Publishing Date	November 16, 2021
Corrigendum Published based on	Clarifications to the RFP

1. Under Section 4, Schedule details, the following changes have been made

S. No	Information	Details
4.1.	Last date (deadline) for submission of bids	March 03, 2022 Upto 3 PM
4.2.	Opening of Technical Proposal	March 04, 2022 at 4 PM

2. Under the RFP, Schedule details, the following changes have been made

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
1.	Chapter 2	7	7.Storage Services	34	The MSI shall be responsible for development of storage management policy, configuration and management of disk array, SAN fabric / switches, NAS, tape library, etc.	" The MSI shall be responsible for development of storage management policy, configuration and management of disk array, SAN / NAS, switches, tape library, etc."
2	Chapter 2	14	Messaging services	46	The messaging software shall adhere to the following parameters: 1.The messaging software OEM should be a leader in independent market research reports like Gartner, Radicati, IDC etc. 2.The messaging software should be open source. 3.The messaging software should provide a native offline desktop client for windows/mac	The messaging software shall adhere to the following parameters: 1.The messaging software should be preferably open source. 2.The messaging software should provide a native offline desktop client for windows/mac 3.The messaging software should have open API to integrate business applications using MASHUPS.

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
					4.The messaging software should have open API to integrate business applications using MASHUPs	
3	Chapter 2	18.4.	18.4. Implementation SLAs	93	Capping: The upper limit of penalty would be capped at 5% of the Capital Expenditure. In case the successful MSI reaches the upper limit of penalty at any point of time during implementation phase, NFAI reserves the right to invoke the termination clause	“Capping: The upper limit of penalty would be capped at 5% of the Total Project Cost. In case the successful MSI reaches the upper limit of penalty at any point of time during implementation phase, NFAI reserves the right to invoke the relevant clause as mentioned in the Draft contract”
4	Chapter 6	2. NFAI Media Ingestion Room (MIR) Architecture – Physical Infrastructure	2.1.12. UPS Requirements & Features	151	“It is recommended to have 2 UPS with 30 minutes battery back-up on each UPS for redundant purpose. The UPS system shall be provided with a capacity to accommodate the active components in the Media Ingestion Room for 30 Minutes. (number of racks may increase/ decrease as per MSI’s solution) in an area of 300 sq. ft. ”	“It is recommended to have 2 UPS with 30 minutes battery back-up on each UPS for redundant purpose. The UPS system shall be provided with a capacity to accommodate the active components in the Media Ingestion Room for 30 Minutes. (number of racks may increase/ decrease as per MSI’s solution) in an area of 500 sq. ft. ”

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
						The table at Chapter 4: Evaluation Process, Point no 8. Commercial Bid Format. Sub-Table A.1: Media Ingestion Room Sr.no A1.18: For “quantity 300 Sq. ft to be read as 500 Sq. ft “
5	Chapter 6	3.1	Infrastructure – Media Ingestion Room (MIR)	163	D. Minimum Technical Specifications for - Next Generation Fire Wall Sr.no 11. Firewall should be EAL4 / NDPP/ NDcPP certified	D. Minimum Technical Specifications for - Next Generation Fire Wall Sr.no 11. Firewall should be EAL4 / NDPP/ NDcPP certified / BIS/CE/ROHS
6	Chapter 6	Point no 3: Technical Specifications – Physical Components	F ii. Infrastructure Components for Media Ingestion Room	165	G. Minimum Technical Specifications for Storage – Local Central Storage	Kindly refer Annexure 1
7	Chapter 7	7.15	7.15. Draft contract copy	249	The number of liquidated damages under this Contract shall not exceed [10] % of the total value of the contract as specified in Appendix D.	“The number of liquidated damages under this Contract shall not exceed [5] % of the total value of the contract as specified in Appendix D.”

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
8	Chapter 7	7.15	7.15.2. Special Conditions of Contract: SC Clause 8	251	<p>Limitation of the Agency’s Liability towards the “Employer”</p> <p>{Note: Proposals to introduce exclusions/limitations of the Agency’s liability under the Contract should be scrutinized by Employers/” Employer’s. In this regard the parties should be aware of the Employer’s policy on this matter which is as follows: 1. If the Parties agree that the Agency’s liability should simply be governed by the Applicable Laws of India, they should delete this Clause SC 3.4 from the SC.</p> <p>If the Parties wish to limit or to partially exclude the Agency’s liability to the “Employer”, they should note that, to be acceptable to the Employer, any limitation of the Agency’s liability should at the very least be reasonably related to (a) the damage the Agency might potentially cause to the</p>	<p>Limitation of the Agency’s Liability towards the “Employer”</p> <p>{Note: Proposals to introduce exclusions/limitations of the Agency’s liability under the Contract should be scrutinized by Employers/” Employer’s. In this regard the parties should be aware of the Employer’s policy on this matter which is as follows: 1. If the Parties agree that the Agency’s liability should simply be governed by the Applicable Laws of India, they should delete this Clause SC 3.4 from the SC.</p> <p>If the Parties wish to limit or to partially exclude the Agency’s liability to the “Employer”, they should note that, to be acceptable to the Employer, any limitation of the Agency’s liability should at the very least be reasonably related to (a) the damage the Agency might potentially cause</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
					<p>“Employer”, and (b) the Agency’s ability to pay compensation using their own assets and reasonably obtainable insurance coverage. The Agency’s liability should not be limited to less than a multiplier of the total payments to the Agency/s under the Contract for remuneration and reimbursable expenses. A statement to the effect that the Agency/s are liable only for the re- performance of faulty Services is not acceptable to the Employer. Also, the Agency’s liability should never be limited for loss or damage caused by the Agency’s gross negligence or willful misconduct</p>	<p>to the “Employer”, and (b) the Agency’s ability to pay compensation using their own assets and reasonably obtainable insurance coverage. The Agency’s liability except for loss or damage caused by the Agency’s gross negligence or willful misconduct, shall not exceed the total contract value. A statement to the effect that the Agency/s are liable only for the re- performance of faulty Services is not acceptable to the Employer. Also, the Agency’s liability should never be limited for loss or damage caused by the Agency’s gross negligence or willful misconduct.</p>

Annexure 1

1. Revised Minimum Technical Specifications for SAN Storage – Local Central Storage

G Minimum Technical Specifications for SAN Storage – Local Central Storage		
Sr. No.	Feature	Specifications
1.	Converge / Unified Storage	The offered Storage Solution should be deployed as Software Defined End-to-End Storage Solution which shall support all Linux, Windows, and Mac OS for sharing files across clients. The Architecture shall support underlying Shared SAN filesystem.
		The Storage Solution should be fine tunable to support large files (Example: File Size 100GB transfer from Workstations/Servers)
		Storage solution must support following protocols: native block storage, SMB3, NFSv3, or higher and FTP
		Should allow concurrent unrestricted and unlimited access to multiple users with Multiprotocol SAN and LAN Access and providing line speed for video editing
2.	Operating System & Clustering Support	The offered storage architecture should support industry-leading Operating System platforms including: Latest versions of Windows Server, VMware, HP-UX, IBM-AIX, Linux etc.
3.	Capacity & Scalability	The offered storage solution should have minimum 30TB RAW capacity using SSD drives. An array 500TB RAW capacity using 10K SAS or NL-SAS drives to create single namespace. The 500TB RAW should be served as production space with single volume accessible to Production system of mentioned Operating system for share files across user systems. It should have minimum performance of 7GB/s aggregated and scalable. The storage array should have a dual controller in Active Active mode. The offered storage architecture should support to expand the filesystem by adding drives/controllers so that production space can be seamlessly expanded in future. The software defined storage architecture should be support multiple Disk storage systems in the same environment and should be disk vendor agonistic.
4.	Cache	The offered storage architecture should have multi-level caching feature. The controllers should have a minimum cache of 16GB expandable with Flash/SSD drives. The client should have tunable cache buffer mechanism to improve performance for video playback.

G Minimum Technical Specifications for SAN Storage – Local Central Storage		
Sr. No.	Feature	Specifications
		Offered Storage array shall also have additional support for Flash Cache using SSD / Flash drives. Both File services as well as Block operations shall be able to utilize flash cache.
5.	Architecture & Processing Power	The offered storage solution should support for configurable IO size at disk array level as well as filesystem block size level based on the application requirement to achieve optimal performance for read/ write of video files.
6.	No Single point of Failure	Offered Storage Array shall be configured in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc.
7.	Disk Drive Support	Offered Storage Arrays shall support minimum 900GB hot-pluggable Enterprise SSD hard drives, and 4/8/12/18 TB Enterprise class NL-SAS drives.
8.	Raid Support & Virtualization	The offered storage architecture should have a mechanism to distribute writes across all the logical Units providing best optimal performance required for the video-based workflow. The host should have parallel access to all provisioned Lun under the Filesystem to leverage maximum performance
		The offered storage should have disk redundancy configured at hardware level as per the industry standard and account for enough hot spare to immediate rebuilding of the array. The Array configuration should have at least dual parity or better redundancy configured at the array level.
9.	Data Protection	In case of Power failure, Storage array shall have mechanism to protect the controller cache to avoid any data loss.
10.	Protocols	Offered Storage array shall support all well-known protocols for block and Network share access like FC, ISCSI, SMB 3.0, NFS V4 etc.
11.	Host Ports and Back- end Ports	The storage architecture should be considered with controller/controllers with minimum 8 nos. Of 16Gbps FC front end ports.
12.	Global Hot Spare	Offered Storage Array shall support distributed Global hot Spare for offered Disk drives. Global hot spare shall be configured as per industry practice.
13.	Performance and Quality of service	The offered storage architecture should have the capability to aggregate all the disks available and added in future to expand capacity and performance.

G Minimum Technical Specifications for SAN Storage – Local Central Storage		
Sr. No.	Feature	Specifications
14.	Maintenance	Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives.
15.	Snapshot / Point in time copy / Clone	The storage array should have support for both controllers based as well as file system-based snapshots functionality
16.	Quota Management and Antivirus Scanning	The offered storage shall support for User or Directory level hard and soft quota.
17.	Storage Tiering	The offered storage architecture shall support dynamic migration of data blocks from one RAID set to another while keeping the application online.
		The offered storage architecture shall support tiering of files on multiple storage medium like LTO Tapes and S3 Cloud location.
		Storage solution should have user policy-based data protection that can be defined at directory level. The storage should facilitate to protect the filesystem metadata for faster restore.