

CORRIGENDUM – 1

Tender Reference Number	302/52/2020- NFHM
Tender Title	Request for Proposal for Selection of Master System Integrator (MSI) for implementation of NFAI's Data Center and Enterprise Solution (NES)
Tender Publishing Date	16 December 2020
Corrigendum Published based on	Clarifications to the RFP

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
1	2.Scope of work	15.3.2 / 19	15.3.2. Media Asset Management (MAM) System	48	xix. Should provide restricted streaming/downloading functionality, basis the privileges defined under Chapter 2: Section 15.1, for easy offline access on the portal only.	The revised clause to be read as: Should provide restricted streaming/ downloading functionality, basis the privileges defined under Chapter 2: Section 15.1, for easy offline access on the mobile device with NES application only."
2	2.Scope of work	2	15.8.12 ii. a	78	The peak number of users (internal and external) using the Solution concurrently may be around 100.	The revised clause to be read as: The peak number of users (internal and external) using the Solution concurrently may be around 100,000
3	2.Scope of work	14	14. Messaging services	42	14. Messaging services The MSI shall provide messaging services to all the authorized users specified by NFAI. The bidder shall	Messaging Systems to be read as point no. 15. Messaging services. The MSI shall provide messaging services to all the authorized users specified by NFAI. The bidder shall

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					<p>be responsible for designing, implementing and maintenance of the entire messaging solution.</p> <p>The MSI shall procure, install & maintain centralized messaging solution including necessary hardware and software as required. It shall be the responsibility of the bidder for complete migration from existing system to new centralized messaging system including messaging clients.</p> <p>The MSI shall be responsible for</p> <ul style="list-style-type: none"> ▪ Maintaining the messaging application ▪ Adding / removing / renewing Mail IDs on NFAI's request. ▪ Troubleshooting any problems in the messaging system and messaging client. ▪ Monitoring the mailbox usage. ▪ Ensuring timely dispatch of mails. ▪ Keeping a track on the mails getting dropped and taking backups of the mailboxes at regular intervals. ▪ Monitoring the performance statistics including mail server utilization statistics, memory management, CPU utilization and 	<p>be responsible for designing, implementing and maintenance of the entire messaging solution.</p> <p>The MSI shall procure, install & maintain centralized messaging solution including necessary hardware and software as required. It shall be the responsibility of the bidder for complete migration from existing system to new centralized messaging system including messaging clients.</p> <p>The messaging software shall adhere to the following parameters:</p> <ol style="list-style-type: none"> 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 4. The messaging software should have open API to integrate business applications using MASHUPs <p>The MSI shall be responsible for</p> <ul style="list-style-type: none"> ▪ Maintaining the messaging application

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					<p>disk space utilization according to the Service level agreement.</p> <ul style="list-style-type: none"> ▪ Maintaining and troubleshooting spam/content filter applications ▪ Regular updation of Blacklist / whitelist and manual spam filter rules. ▪ Implement appropriate content filtering / mining mechanism, ▪ Prepare log report from Messaging system including Anti-Spam & Content Filtering for reporting the incidents of SPAM mails, Virus Mails & Accessing the restricted sites/contents. The report to be submitted to the designated NFAI office on periodic basis for review and taking corrective actions with consultation of the Project management consultant. ▪ Implement and maintain gateway level SMTP antivirus and Antispam. ▪ All incoming and outgoing mail traffic shall be routed through gateway antivirus and checked/ verified to be malicious content free. 	<ul style="list-style-type: none"> ▪ Adding / removing / renewing Mail IDs on NFAI's request. ▪ Troubleshooting any problems in the messaging system and messaging client. ▪ Monitoring the mailbox usage. ▪ Ensuring timely dispatch of mails. ▪ Keeping a track on the mails getting dropped and taking backups of the mailboxes at regular intervals. ▪ Monitoring the performance statistics including mail server utilization statistics, memory management, CPU utilization and disk space utilization according to the Service level agreement. ▪ Maintaining and troubleshooting spam/content filter applications ▪ Regular updation of Blacklist / whitelist and manual spam filter rules. ▪ Implement appropriate content filtering / mining mechanism, ▪ Prepare log report from Messaging system including Anti-Spam & Content Filtering for reporting the incidents of SPAM mails, Virus Mails & Accessing the restricted

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					<ul style="list-style-type: none"> ▪ Installing, Configuring and managing Desktops & Mail Clients, PDAs, Smart Phones, etc. for the Mail Access. 	<p>sites/contents. The report to be submitted to the designated NFAI office on periodic basis for review and taking corrective actions with consultation of the Project management consultant.</p> <ul style="list-style-type: none"> ▪ Implement and maintain gateway level SMTP antivirus and Antispam. ▪ All incoming and outgoing mail traffic shall be routed through gateway antivirus and checked/ verified to be malicious content free. ▪ Installing, Configuring and managing Desktops & Mail Clients, PDAs, Smart Phones, etc. for the Mail Access.

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4	2.Scope of work	15.7.5.11 Point (iii)	15.7.5.11. Application Support iii. Application Software Maintenance	67	<p>a. MSI shall provide unlimited support through telephone/ E-mail/ Remote connectivity/ onsite visit as required as per the service window defined in the RFP</p> <p>b. The MSI shall address all the issues pertaining to errors/bugs/gaps in the functionality in the solution implemented by the MSI at no additional cost during the support phase.</p> <p>c. For performing any functional changes to system, which are deviating from the signed-off Functional Requirements/System Requirements, the MSI shall provide the following resources at NFAI's premises for One year (extendable on pro-rata basis on Man-month rate) after the go-live of the portal for getting the requisite changes done in the system:</p> <ul style="list-style-type: none"> •Project Manager •Business Analyst •Solution Architect •Programmer •Database Expert <p>Note:</p> <p>1. The Project Manager & Business Analyst are expected to be deployed at NFAI's premises from the date of commencement of the project. The other resources mentioned above are expected to be deployed after UAT.</p> <p>2. The MSI should set-up the necessary environment, including full access to their own Development environment, for the above team to work out of NFAI premises.</p> <p>d. In case of software installed as part of the system, all patches and upgrades from OEMs shall be applied by the MSI ensuring customization done in the solution as per the requirements are applied. Technical upgrade of the installation to the new version, as and when required, shall be done by the</p>	<p>The revised clause to be read as:</p> <p>i. Application Software Maintenance</p> <p>a.MSI shall provide unlimited support through telephone/ E-mail/ Remote connectivity/ onsite visit as required as per the service window defined in the RFP</p> <p>b. The MSI shall address all the issues pertaining to errors/bugs/gaps in the functionality in the solution implemented by the MSI at no additional cost during the support phase.</p> <p>c. For performing any functional changes to system, which are deviating from the signed-off Functional Requirements/System Requirements, the MSI shall provide the following resources for NFAI's work for One year (extendable on pro-rata basis on Man-month rate) after the go-live of the portal for getting the requisite changes done in the system:</p> <table border="1"> <thead> <tr> <th>Resources</th> <th>On-site/ Off-site</th> </tr> </thead> <tbody> <tr> <td>Project Manager</td> <td>On-site from date of commencement of project</td> </tr> <tr> <td>Business Analyst</td> <td>On-site from date of commencement of project</td> </tr> <tr> <td>Solution Architect</td> <td>Off-site after UAT On-site on case to case basis</td> </tr> <tr> <td>Programmer</td> <td>Off-site after UAT</td> </tr> <tr> <td>Database Expert</td> <td>Off-site UAT On-site on case to case basis</td> </tr> </tbody> </table>	Resources	On-site/ Off-site	Project Manager	On-site from date of commencement of project	Business Analyst	On-site from date of commencement of project	Solution Architect	Off-site after UAT On-site on case to case basis	Programmer	Off-site after UAT	Database Expert	Off-site UAT On-site on case to case basis
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					<p>MSI. MSI has to ensure non disruption to the applications beyond specific schedule for all the patch & upgrade related activities.</p> <p>e. MSI shall ensure that patch/upgrade will not impact the functionalities & performance of the existing applications. MSI shall plan and provide comprehensive release management as well as rollback policy.</p> <p>f. Performance Tuning of products/applications, databases, third party software's and any other components provided as part of the solution software including reconfiguration of the system in the event of any hardware/network failures/if any hardware/network components have to be replaced, shall be the responsibility of the MSI.</p> <p>g. MSI will maintain Issue log for the errors and bugs identified in the solution and release notes for any change done in the solution. The same should be periodically submitted to NFAI.</p>	<p>Note:</p> <p>1.The Project Manager & Business Analyst are expected to be deployed at NFAI's premises from the date of commencement of the project. The other resources mentioned above are expected to be deployed after UAT.</p> <p>2. The MSI should set-up the necessary environment, including full access to their own Development environment, for the above team to work out of NFAI premises.</p> <p>d. In case of software installed as part of the system, all patches and upgrades from OEMs shall be applied by the MSI ensuring customization done in the solution as per the requirements are applied. Technical upgrade of the installation to the new version, as and when required, shall be done by the MSI. MSI has to ensure non disruption to the applications beyond specific schedule for all the patch & upgrade related activities.</p> <p>e. MSI shall ensure that patch/upgrade will not impact the functionalities & performance of the existing applications. MSI shall plan and provide comprehensive release management as well as rollback policy.</p> <p>f. Performance Tuning of products/applications, databases, third party software's and any other components provided as part of the solution software including reconfiguration of the system in the event of any hardware/network failures/if any hardware/network components have to be replaced, shall be the responsibility of the MSI.</p> <p>g. MSI will maintain Issue log for the errors and bugs identified in the solution and release notes for any change done in the solution. The same should be periodically submitted to NFAI.</p>

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5	2.Scope of work	1 Point 1.2	1. Background 1.2	16	<p>1.2. The MSI will be required to manage different file formats post their output from digitization and restoration stage, as follows:</p> <table border="1"> <thead> <tr> <th>#</th> <th>Particulars</th> <th>Format</th> <th>Metric</th> <th>Storage Media</th> <th>Quantum (per format)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td rowspan="2">Filmic material</td> <td>DCP</td> <td rowspan="2">No. of films</td> <td rowspan="2">LTO7 or higher version tapes</td> <td rowspan="2">5,113</td> </tr> <tr> <td></td> <td>HD</td> </tr> <tr> <td>2</td> <td rowspan="2">Born Digital Films</td> <td>DCP</td> <td rowspan="2">No. of films</td> <td rowspan="2">LTO7 or higher version tapes</td> <td rowspan="2">1,200</td> </tr> <tr> <td></td> <td>HD</td> </tr> <tr> <td>3</td> <td>VHS</td> <td>MOV</td> <td>No. of films</td> <td>Blu-ray Disk</td> <td>1,500</td> </tr> <tr> <td>4</td> <td>U-matic Tapes</td> <td>MOV</td> <td>No. of films</td> <td>Disk</td> <td>3,000</td> </tr> <tr> <td>5</td> <td>Betacam & Digibeta</td> <td>MOV</td> <td>No. of films</td> <td>Disk</td> <td>5,500</td> </tr> <tr> <td>6</td> <td>Non-filmic material</td> <td>PDF, jpeg</td> <td>No. of pages</td> <td>LTO7 or higher version tapes</td> <td>475,722</td> </tr> </tbody> </table> <p>Note: The numbers above are indicative and subject to change.</p>	#	Particulars	Format	Metric	Storage Media	Quantum (per format)	1	Filmic material	DCP	No. of films	LTO7 or higher version tapes	5,113		HD	2	Born Digital Films	DCP	No. of films	LTO7 or higher version tapes	1,200		HD	3	VHS	MOV	No. of films	Blu-ray Disk	1,500	4	U-matic Tapes	MOV	No. of films	Disk	3,000	5	Betacam & Digibeta	MOV	No. of films	Disk	5,500	6	Non-filmic material	PDF, jpeg	No. of pages	LTO7 or higher version tapes	475,722	<p>The revised clause to be read as: 1.2. The MSI will be required to manage different file formats post their output from digitization and restoration stage, as follows: Refer Section 2 of Annexure in Corrigendum – 1.</p>
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6	2.Scope of work	2.2 Point 2.2.4	2.2. NFAI Disaster Recovery Center	18	2.2.4. Purpose of setting up the DR is to have a storage to be used for preservation of media assets. So, the DR will have synchronized backup of the Access copies (Refer Chapter 2: Section 1). The Storage Capacity requirement is estimated to be 2 PB.	The revised clause to be read as: " Design and document an efficient disaster recovery solution in lines with the requirements of NFAI and as per the RTO of 12 Hour and RPO of 12 Hours"
7	2.Scope of work	2.2 Point 2.2.2	2.2. NFAI Disaster Recovery Center	19	2.2.2. NFAI Disaster Recovery center shall be a 100% replica of the Data center in Pune. Details of the location of Disaster Recovery Center shall be shared in due course by NFAI.	The revised Clause to be read as: NFAI Disaster Recovery center shall be a 100% replica of the Data center in Pune and shall be hosted in a MeitY empaneled Cloud in different seismic zone than that of the Data Center.
8	2.Scope of work	8	8. Backup / Restore Services	21	4. Backup / Restore Services Design, Procure, implement, operate and maintain the shared backup and restore components and provide backup and restore services to the user department.	The revised Clause to be read as: MSI should provide shared disk-based backup services & flexibility to accommodate variable data backup usage. MSI to specify a detailed plan of backup of server data. This will include backup frequency, retention policy, media storage policy, off-site backup policy, etc. Below is the indicative Backup and restore policy. However MSI may propose optimal backup plan to NFAI and post approval from NFAI, implement the same. > Full Backup - Weekly with 1 month retention > Incremental Backup - Daily with 15 days retention > Full backup - Monthly with 12 months retention > offline/archival - Tape with 5 years retention

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9	2.Scope of work	15.3.1	15.3.1. Enterprise Media Portal	47	15.3.1.14. Portal should be interoperable with industry standard databases (Oracle, DB2, Microsoft etc.)	The revised clause to be read as: Portal should be interoperable with industry standard databases (Oracle/ DB2/ Microsoft etc.)
10	2.Scope of work	15.3.3.	Content Delivery System	60	15.3.3. Content Delivery System The MSI is required to build functionalities to enable dissemination of digital media for consumption by users.	Refer Section 3 of Annexure in Corrigendum I
11	2.Scope of work	15.7.5.2.	Infrastructure Components Point (ix)	59	ix. DR Tools and Applications: Design and document an efficient disaster recovery solution in lines with the requirements of NFAI and as per the RTO of 24 Hour and RPO of 24 Hours. MSI has to study the existing application and IT infrastructure setup at primary site and suggest on hardware requirements at DR site that would meet the overall RTO and RPO objectives of applications in event of disaster.	The revised clause to be read as: Design and document an efficient disaster recovery solution in lines with the requirements of NFAI and as per the RTO of 12 Hour and RPO of 12 Hours
12	2.Scope of work	15.7.5.4.	Data Center/ Disaster Recovery (DC/ DR) Services	133	Schematic diagram - Paste (Page 63)	Refer Section 4 of Annexure in Corrigendum- 1
13	6. Annexure	Figure	Data Center/ Disaster Recovery (DC/ DR) Services	135	NFAI Data Center Reference Architecture (Page 133)	Refer Section 4 of Annexure in Corrigendum- 1
14	2. Scope of work	5.3.	LTO Library and Maintenance		5.3.3. MSI should be responsible for hardware upgradation.	This clause stands deleted

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15	2. Scope of work	15.7.5.2.	Infrastructure Components		a) MSI should provide shared disk-based backup services & flexibility to accommodate variable data backup usage. MSI to specify a detailed plan of backup of server data. This will include backup frequency, retention policy, media storage policy, off-site backup policy, etc.	<p>The revised clause to be read as:</p> <p>MSI should provide shared disk-based backup services & flexibility to accommodate variable data backup usage. MSI to specify a detailed plan of backup of server data. This will include backup frequency, retention policy, media storage policy, off-site backup policy, etc.</p> <p>Below is the indicative Backup and restore policy. However, MSI may propose optimal backup plan to NFAI and post approval from NFAI, implement the same.</p> <ul style="list-style-type: none"> > Full Backup - Weekly with 1-month retention > Incremental Backup - Daily with 15 days retention > Full backup - Monthly with 12 months retention > offline/archival - Tape with 5 years retention
16	2. Scope of work	2.1	2.1. NFAI Data Center	18	2.1.1. The NFAI Data Center shall provide adequate space to house all assets of various programs envisioned by NFAI within its premises in Pune in an environment that meets the need for reliability, availability, scalability, security and interoperability. NFAI Data Center will act as a mediator and convergence point between open, unsecured public domain and sensitive government environment. It will enable various projects of NFAI to host their services/applications on a common infrastructure leading to ease of integration and efficient management, ensuring that computing resources and the support connectivity infrastructure. The Storage Capacity requirement is estimated to be 2 PB.	<p>The revised clause to be read as:</p> <p>2.1.1. The NFAI Data Center shall provide adequate space to house all assets of various programs envisioned by NFAI within its premises in Pune in an environment that meets the need for reliability, availability, scalability, security and interoperability. NFAI Data Center will act as a mediator and convergence point between open, unsecured public domain and sensitive government environment. It will enable various projects of NFAI to host their services/applications on a common infrastructure leading to ease of integration and efficient management, ensuring that computing resources and the support connectivity infrastructure in compliance</p>

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						with NES requirements. The Storage Capacity requirement is estimated to be 2 PB.
17	2. Scope of work	2.3	2.3. Application hosting Time plan	19	2.3.1. The proposed NFAI Enterprise Solution will be hosted at Data Center. Tentative time plan for hosting of these applications is approx. 3 months from the date of start of live operations of the Data Center.	The revised clause to be read as: 2.3.1. The proposed NFAI Enterprise Solution will be hosted at Data Center. The time plan for hosting of these applications is 6 months from the date of signing of the contract.
18	2. Scope of work	4	4. Envisaged Outcomes	21	5. Optimal Utilization by sharing of IT Infrastructure Resources to meet individual peak loads	This Clause Stands Deleted
19	2. Scope of work	5.3.	5.3. LTO Library and Maintenance	26	5.3.3. MSI should be responsible for hardware upgradation.	This Clause Stands Deleted
20	2. Scope of work	6.4.4	6.4.4. Acceptance Testing	32	i.Pre-Dispatch Test: NFAI reserves the right to inspect equipment's and material, prior to dispatch. NFAI may witness the pre-dispatch Quality testing at the vendor premise. The cost of all such tests shall be borne by the Supplier. If any of the inspected goods fail for confirm to specification after installation, NFAI may reject them and the MSI shall have to replace the rejected goods at no extra cost. In case of inspection waiver, the same shall be obtained before the dispatch of goods from the NFAI. Inspection of rest of material shall be done at site by the NFAI. Sample approval should be obtained before installation for such material.	This Clause Stands Deleted
21	2. Scope of work	10	10. Security Services	44	Formulate and Implement access rules for departments to be connected to data center and for VPN access to department network on SWAN. This would include appropriate Anti-Virus rules and general security policies.	The revised clause to be read as: Formulate and Implement access rules for departments to be connected to data center and for VPN access to department network. This would include appropriate Anti-Virus rules and general security policies.

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22	2. Scope of work	15.1.	15.1. Users	47	15.1.2. Research Scholars: who will have access to filmic/ non-filmic content on NFAI premises as well as over the internet with download option available on paid basis. Download option for viewing films on NFAI Enterprise application only (in offline mode). (Download only on web & mobile App only)	<p>The revised clause to be read as:</p> <p>Should provide restricted streaming/ downloading functionality, basis the privileges defined under Chapter 2: Section 15.1, for easy offline access on the mobile device with NES application only.</p>
23	2. Scope of work	15.3.2.	15.3.2. Media Asset Management (MAM) System	47	ii. Should be able to seamlessly synchronize with the existing cataloguing application prepared as part of Film Collection Assessment for keeping the Metadata up to date.	<p>The revised clause to be read as:</p> <p>ii. Should be able to seamlessly synchronize with the existing application prepared as part of Film Collection Assessment for keeping the Metadata up to date. Existing cataloguing standard EN15907 is in place for non-filmic material named C-koha.</p>
24	2. Scope of work	15.3.2.	15.3.2. Media Asset Management (MAM) System	27	iv. Should be able to integrate databases provided by multiple vendors during digitization, restoration of filmic assets and during digitization of non-filmic assets and create a master database for the same.	<p>The revised clause to be read as:</p> <p>iv. Should be able to integrate databases provided by multiple vendor during digitization, restoration of filmic assets and during digitization of non-filmic assets and create a master database for the same.</p> <p>- In master database, MSI should be able to manage our data at work, manifestation, variant and item levels and ensure the appropriate links between related works.</p> <p>- Filmic material catalogue shall be made available through APIs. Catalogue from the preceding stages (such as Film Collection Assessment, Preventive Conservation, Digitization Restoration projects) shall be made available to the MSI on Excel. However, MSI has to COLLATE and create a master catalogue for the NFAI Enterprise Solution.</p> <p>Note: The cataloguing software should adhere</p>

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						strictly to standards and practices stated in 'The FIAF moving image cataloguing manual'.
25	2. Scope of work	15.3.2.	15.3.2. Media Asset Management (MAM) System	48	xiv. The application should have the ability to accommodate Cataloguing guidelines to be implemented as per FIAF Cataloguing manual.	The revised clause to be read as: xiv. The application should have the ability to accommodate Cataloguing guidelines to be implemented as per 'The FIAF moving image cataloguing manual': "https://www.fiafnet.org/images/tinyUpload/E-Resources/Commission-And-PIP-Resources/CDC-resources/20160920%20Fiaf%20Manual-WEB.pdf"
26	2. Scope of work	6.4.4	6.4.4. Acceptance Testing	18	i. Pre-Dispatch Test: NFAI reserves the right to inspect equipment's and material, prior to dispatch. NFAI may witness the pre-dispatch Quality testing at the vendor premise. The cost of all such tests shall be borne by the Supplier. If any of the inspected goods fail for confirm to specification after installation, NFAI may reject them and the MSI shall have to replace the rejected goods at no extra cost. In case of inspection waiver, the same shall be obtained before the dispatch of goods from the NFAI. Inspection of rest of material shall be done at site by the NFAI. Sample approval should be obtained before installation for such material.	This Clause stands deleted
27	2. Scope of work	2.3.	2.3. Application hosting Time plan	17	2.3.1. The proposed NFAI Enterprise Solution will be hosted at Data Center. Tentative time plan for hosting of these applications is approx. 3 months from the date of start of live operations of the Data Center.	The revised clause to be read as: 2.3.1. The proposed NFAI Enterprise Solution will be hosted at Data Center. The time plan for hosting of these applications is 6 months from the date of signing of the contract.
28	2.Scope of work	1	1. Background	179 & 17	1.2. The MSI will be required to manage different file formats post their output from digitization and restoration stage, as follows: # Particulars Format Metric Storage Media Quantum (per	1.2. The MSI will be required to manage different file formats post their output from digitization and restoration stage, as follows: (Refer Section 2 of Annexure in Corrigendum- 1

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					1 Filmic material DCP No. of films LTO7 or higher version tapes 5,113 HD 2 Born Digital Films DCP No. of films LTO7 or higher version tapes 1,200 HD 3 VHS MOV No. of films Blu-ray Disk 1,500 4 U-matic Tapes MOV No. of films Disk 3,000 5 Betacam & Digibeta MOV No. of films Disk 5,500 6 Non-filmic material PDF, jpeg No. of pages LTO7 or higher version tapes 475,722 Note: The numbers above are indicative and subject to change.	
29	6. Annexure	4.3	4.3. Storage Sizing assumptions	48	SN Storage Process Media Type Format Size (in TB) Medium 1 Low Res. Access Copies Video HD 272.37 i) LTO7 or higher 2 Low Res. Access Copies Video MOV 548 Blu-ray Disks 3 Non filmic material pdf, jpeg 15.00 Hard disk 4 Total 835.37 5 Copy for DR 835.37 6 Total (in PB) 1.63 7 Total Storage (in PB with buffer of 20%) 1.95	Refer Section 3 of Annexure in Corrigendum -1
30	2. Scope of work	15.3.4.	15.3.4. DCP on Demand	19	iv. Should be able to manage delivery of DCPs and Key Delivery Message (KDMs) to film festival/ archive/ institutions over the web.	The revised clause to be read as: Should be able to manage delivery of DCPs and Key Delivery Message (KDMs) to film festival/ archive/ institutions over the web. NFAI currently has DaVinci Resolve 14 for DCP generation and DaVinci Resolve or EasyDCP KDM generator for KDM generation.
31	2. Scope of work	3	3. Solution Scenarios	19	The MSI is required to build, operate and maintain an On-Premise tier-III Data center and cloud-based Disaster Recovery Center at NFAI premises which	The revised clause to be read as: The MSI is required to build, operate and maintain

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
					enables enterprise grade, one-stop, web window comprising of NFAI Enterprise solution for NFAI & its users. The scope is to provide the services for development of on-premise data center, on premise disaster recovery center, Requirements Study, Solution Design, Solution Development, Testing, Implementation, Hosting and Maintenance of scalable and agile NFAI Enterprise Solution for 5 (five) years post go-live of the Solution.	an On-Premise tier-3 Data center at NFAI premises and cloud-based Disaster Recovery Center , which enables enterprise grade, one-stop, web window comprising of NFAI Enterprise solution for NFAI & its users. The scope is to provide the services for development of on-premise data center, cloud-based disaster recovery center , Requirements Study, Solution Design, Solution Development, Testing, Implementation, Hosting and Maintenance of scalable and agile NFAI Enterprise Solution for 5 (five) years post go-live of the Solution.
32	2. Scope of work	4	4. Envisaged Outcomes	19	<p>1. Enhanced reliability & security of Information Systems through centralized management of IT Infrastructure adopting the necessary measures and practices</p> <p>i. Dynamic Scalability</p> <p>ii. Centralized and Simplified Management</p> <p>iii. Improved quality of Data housekeeping</p> <p>iv. Lower risk of data loss</p> <p>v. Higher availability of system and data – 99.98%</p> <p>vi. Better management of security & access control</p> <p>vii. Guaranteed Service Levels</p> <p>2. Reduced administrative burden for NFAI by avoiding necessity of vendor management, addressing the technical issues surrounding the IT Infrastructure on a standalone basis</p> <p>3. Efficient & effective management of Information Security related issues</p> <p>4. Aggregation of IT Infrastructure (Hardware, Storage, Networking and Software) and Management Resources</p> <p>5. Optimal Utilization by sharing of IT Infrastructure Resources to meet individual peak loads</p> <p>6. Standardization of Systems</p> <p>i. Improved Scalability</p>	<p>The revised clause to be read as:</p> <p>1. Enhanced reliability & security of Information Systems through centralized management of IT Infrastructure adopting the necessary measures and practices</p> <p>i. Dynamic Scalability</p> <p>ii. Centralized and Simplified Management</p> <p>iii. Improved quality of Data housekeeping</p> <p>iv. Lower risk of data loss</p> <p>v. Higher availability of system and data – 99.98%</p> <p>vi. Better management of security & access control</p> <p>vii. Guaranteed Service Levels</p> <p>2. Reduced administrative burden for NFAI by avoiding necessity of vendor management, addressing the technical issues surrounding the IT Infrastructure on a standalone basis</p> <p>3. Efficient & effective management of Information Security related issues</p> <p>4. Aggregation of IT Infrastructure (Hardware, Storage, Networking and Software) and Management Resources</p> <p>5. Optimal Utilization by sharing of IT Infrastructure</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
					ii. Faster Implementation cycle times 7. Stable and Predictable Physical and Technical Environment	Resources to meet individual peak loads. The system should have a maximum RTO of 12 hours and maximum RPO of 12 hours. 6. Standardization of Systems i. Improved Scalability ii. Faster Implementation cycle times 8. Stable and Predictable Physical and Technical Environment
33	2. Scope of work	15.7.5.4.	15.7.5.4. Data Center/ Disaster Recovery (DC/ DR) Services	18 & 62	iv. Disaster Recovery should be hosted on MeitY empaneled (GCC) cloud which will be physically in a highly secure location in a different Seismic Zone than that of Data Center. Purpose of setting up the DR is to have a storage to be used for preservation of media assets. So, the DR will have synchronized backup of the Access copies (Refer Chapter 2: Section 2). The Storage Capacity requirement is estimated to be 2 PB.	The revised clause to be read as: iv. Disaster Recovery should be hosted on MeitY empaneled (GCC) cloud which will be physically in a highly secure location in a different Seismic Zone than that of Data Center. Purpose of setting up the DR is to have a storage to be used for preservation of media assets. So, the DR will have synchronized backup of the Access copies (Refer Chapter 2: Section 2). The Storage Capacity requirement is estimated to be 2 PB. DR will be a 100% replica of DC.
34	2. Scope of work	15.3.2	15.3.2. Media Asset Management (MAM) System	47	vi. Should be able to integrate with the Vault Monitoring System and access the RFID information for real time asset tracking of reels in vaults.	The revised clause to be read as: vi. Should be able to integrate with the already functioning RFID solution designed for real time asset tracking of reels (Physical assets) in vaults.
35	2. Scope of work	15.3.2	15.3.2. Media Asset Management (MAM) System	47	iii. Should be able to migrate data from cataloguing systems already in use at NFAI for non-filmic content, (such as C-Koha) using open standard framework.	The revised clause to be read as: iii. Should be able to integrate databases provided by multiple vendors during digitization, restoration of filmic assets and during digitization of non-filmic assets and create a master database for the same. -In master database, MSI should be able to manage our data at work, manifestation, variant and item levels and ensure the appropriate links between related works.

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
						<p>- Filmic material catalogue shall be made available through APIs. Catalogue from the preceding stages (such as Film Collection Assessment, Preventive Conservation, Digitization Restoration projects) shall be made available to the MSI on Excel. However, MSI has to COLLATE and create a master catalogue for the NFAI Enterprise Solution.</p> <p>Note: The cataloguing software should adhere strictly to standards and practices stated in 'The FIAF moving image cataloguing manual'.</p>
36	2. Scope of work	15.3.5	15.3.5 OTT platform	51	<p>d. Quality (Resolution) requested by user</p> <ul style="list-style-type: none"> - 1080p - 720p - 480p <p>- Auto; Adaptive Bit Rate (ABR) should be used to assess the optimal quality for streaming</p>	<p>The revised clause to be read as:</p> <p>d. Quality (Resolution) requested by user</p> <ul style="list-style-type: none"> - 1080p (Minimum bit rate= 8Mbps) - 720p (Minimum bit rate= 5Mbps) - 480p (Minimum bit rate= 2.5Mbps) <p>- Auto; Adaptive Bit Rate (ABR) should be used to assess the optimal quality for streaming</p>
37	2. Scope of work	15.3.5	15.3.5 OTT platform	66	<p>xiv. The final content streamed by the registered user should have a hidden digital NFAI watermark, which should map to the details of the registered user accessing the specific content, thus enabling an audit trail</p>	<p>The revised clause to be read as:</p> <p>xiv. The final content streamed by the registered user should have a hidden digital NFAI watermark (forensic watermark), which should map to the details of the registered user accessing the specific content, thus enabling an audit trail</p>
38	2. Scope of work	15.3.5	15.3.5 OTT platform		<p>xv. Should provide content viewing and download functionality on paid basis, with respect to the privileges defined under Chapter 2: Section 15.1, for easy streaming on the portal only.</p>	<p>The revised clause to be read as:</p> <p>xv. Should provide functionality of offline content viewing within the application post receiving adequate permission from NFAI basis the defined user privileges under Chapter 2: Section 15.1.</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
39	2. Scope of work	15.7.5.9.	15.7.5.9. Data Centre and Disaster Recovery center	134	<p>i. MSI shall ensure provision of power, cooling and underlying cabling for hosting the IT Infrastructure as required in this bid. The internet/bandwidth connectivity would be provided by MSI based on the bandwidth and internet estimations. Thus, MSI in his proposal needs to provide end-to end solution (Refer Chapter 4: Section 9; Table B1)</p> <p>ii. Data Centre & Disaster Recovery will have the following components that may be used commonly and hence MSI will not be including these components in the cost:</p> <p>a. Power and Cooling b. UPS, DG set power backup c. Fire prevention d. Physical security surveillance e. Internet/Bandwidth connectivity</p>	<p>The revised clause to be read as:</p> <p>i) MSI shall ensure provision of power, cooling and underlying cabling for hosting the IT Infrastructure as required in this bid. The internet/bandwidth connectivity would be provided by MSI based on the bandwidth and internet estimations. Thus, MSI in his proposal needs to provide end-to end solution (Refer Chapter 4: Section 9; Table B1)</p> <p>a. Power and Cooling b. UPS, DG set power backup c. Fire prevention d. Physical security surveillance e. Internet/Bandwidth connectivity</p>
40	6. Annexure	1.1	1.1 Design Description	60	<ul style="list-style-type: none"> Application and System layer at NFAI's DC would be Multi-layered and designed to adhere to the open industry standards like XML, SOAP etc. 	<p>The revised clause to be read as:</p> <p>Application and System layer at NFAI's DC would be Multi-layered and designed to adhere to the open industry standards like XML/SOAP/REST etc.</p>
41	2. Scope of work	15.7.5.2.	15.7.5.2. Infrastructure Components	32	<p>f) Storage should be capable to support mix of SSD, SAS and NL SAS for future use.</p>	<p>The revised clause to be read as:</p> <p>Storage node should be capable to support mix of SSD/NVMe and NL SAS for future use.</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
42	2. Scope of work	10	10. Security Services	32	<p>Security is one of the most important aspects of the data center. The detailed scopes of services for security are given below in order to ensure complete security of the data center. In general, the MSI shall ensure the following:</p> <p>§ Integration of all security components used in the data center</p> <p>§ Secured network access provision for all authorized users</p> <p>§ Configure network management policies for managing all the network and security devices using network management systems</p> <p>§ Malicious code (virus, worms, spyware, adware) infected desktops/servers should be isolated so as to prevent further spreading.</p> <p>§ Secure access to centralized applications</p> <p>§ Formulate and Implement access rules for departments to be connected to data center and for VPN access to department network on SWAN. This would include appropriate Anti-Virus rules and general security policies.</p> <p>§ Perimeter Security at data center</p> <p>§ Adherence to all security guidelines issued by NFAI and GoI from time to time.</p>	<p>The revised clause to be read as:</p> <p>Security is one of the most important aspects of the data center. The detailed scopes of services for security are given below in order to ensure complete security of the data center. In general, the MSI shall ensure the following:</p> <ul style="list-style-type: none"> • Integration of all security components used in the data center • Secured network access provision for all authorized users • Configure network management policies for managing all the network and security devices using network management systems • Malicious code (virus, worms, spyware, adware) infected desktops/servers should be isolated so as to prevent further spreading. • Secure access to centralized applications • Formulate and Implement access rules for departments to be connected to data center and for VPN access to department network. This would include appropriate Anti-Virus rules and general security policies. • Perimeter Security at data center • Adherence to all security guidelines issued by NFAI and GoI from time to time.

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
43	2. Scope of work	15.4.1.8.	15.4.1.8. User Behavior Analytics	56	<p>15.4.1.8. User Behavior Analytics</p> <p>i. The solution must be able to detect insider threats using purpose-built models or algorithms.</p> <p>ii. Should provide context around the threat via anomaly correlation and visual mapping of stitched anomalies over various phases of the attack lifecycle.</p> <p>iii. Should increase Security efficiency with rank-ordered threats and supporting evidence</p> <p>iv. Should support bi-directional integration with SIEM for data ingestion, correlation, incident scoping, workflow management and automated response.</p> <p>v. SIEM, UBA & BI platform preferably should be delivered by single OEM.</p> <p>vi. Should incorporate Single Reporting console to monitor and manage SIEM, UBA & BI Platform.</p> <p>vii. Should provide uniform data platform to ingest all types of standard and non-standard logs from any source.</p>	<p>The revised clause to be read as:</p> <p>15.4.1.8. User Behavior Analytics</p> <p>i. The solution must be able to detect insider threats using purpose-built models or algorithms.</p> <p>ii. Should provide context around the threat via anomaly correlation and visual mapping of stitched anomalies over various phases of the attack lifecycle.</p> <p>iii. Should increase Security efficiency with rank-ordered threats and supporting evidence</p> <p>iv. Should support bi-directional integration with SIEM for data ingestion, correlation, incident scoping, workflow management and automated response.</p> <p>v. SIEM, UBA & BI platform should be delivered by single/multiple OEM as deemed appropriate by the MSI.</p> <p>vi. Should incorporate Single Reporting console to monitor and manage SIEM, UBA & BI Platform.</p> <p>vii. Should provide uniform data platform to ingest all types of standard and non-standard logs from any source.</p> <p>viii. The solution should provide compliance use cases to identify usage of insecure, legacy and deprecated encryption algorithms being used by servers on the network.</p> <p>ix. The solution should be able to detect Unknown or encrypted malware, insider threats, policy violations.</p>
44	1. Instruction to bidders	Preamble	Preamble		<p>5.2. NFAI has a collection of approx. 1,32,000 film reels, 1,50,000 photos, 22,000 posters, 13,000 song booklets, 3,000 pamphlets, 1,00,000 press clippings, and 29,000 books.</p>	<p>The revised clause to be read as:</p> <p>5.2. NFAI has a collection of approx. 1,32,000 film reels, 1,50,000 photos, 22,000 posters, 13,000 song booklets, 3,000 pamphlets, 1,00,000 press clippings, and 29,000 books. (Refer Section <u>2</u> of Annexure in Corrigendum - 1)</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
45	2. Scope of work	2	2. Inputs to the solution		The Tier III Compliant Data Center will host the proposed NFAI Enterprise Solution (NES) is designed to work on the outputs provided by other NFAI projects.	The revised clause to be read as: The Tier 3 Compliant Data Center will host the proposed NFAI Enterprise Solution (NES) is designed to work on the outputs provided by other NFAI projects. The ingestion of data into the NES Data Center shall be spread across the five-year timeline.
46	2. Scope of work	2.2.	2.2. NFAI Disaster Recovery Center		2.2.1. The NFAI Disaster Recovery Center shall provide adequate space to house all assets of various programs envisioned by NFAI at one its regional office premises/ in a seismically different zone in an environment that meets the need for reliability, availability, scalability, security and interoperability.	This Clause stands deleted
47	2. Scope of work	2.2.	2.2. NFAI Disaster Recovery Center		2.2.2. NFAI Disaster Recovery center shall be a 100% replica of the Data center in Pune. Details of the location of Disaster Recovery Center shall be shared in due course by NFAI.	The revised clause to be read as: 2.2.2. NFAI Disaster Recovery center shall be a 100% replica of the Data center in Pune. All the APIs shall be duplicated on the DR. Setting up DR is under MSI's scope.
48	2. Scope of work	2.4.	2.4. Digitization and Restoration Project		2.4.3. Outputs from Digitization and Restoration projects in the medium of LTO7 shall be made available on a periodic basis to the MSI.	Refer Section 2 of Annexure in Corrigendum – 1.
49	2. Scope of work	5.4	5.4 NFAI Enterprise Solution		5.4.6. To develop, operate and maintain CMS (Content Management System) for uploaded and stored data	The revised clause to be read as: 5.4.6. To develop, operate and maintain CMS (Content Management System) for uploaded and stored data (Refer Section 3 of Annexure in Corrigendum - 1)
50	2. Scope of work	10	10. Security Services	32	Formulate and Implement access rules for departments to be connected to data center and for VPN access to department network on SWAN. This would include appropriate Anti-Virus rules and general security policies.	This Clause Stands Deleted

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
51	6. Annexure	2.1.1	Server Area Farm	134	This area will contain all the networking components from routers, switches to passive components. The data communication component area will terminate SWAN connections, LAN Connections and host a network monitoring station for LAN & WAN. All the Data Center LAN connections will be provided through switches placed in this area.	<p>The revised clause to be read as:</p> <p>This area will contain all the networking components from routers, switches to passive components. The data communication component area will terminate LAN Connections and host a network monitoring station for LAN. All the Data Center LAN connections will be provided through switches placed in this area.</p>
52	6. Annexure	New			Additional Clause – Deviation Clause	<p>The additional clause to be read as:</p> <p>The cost pertaining to new hardware or hardware to be upgraded to meet SLA requirements over and above minimum specifications specified in the RFP shall be borne by MSI at no additional cost to NFAI anytime during the contract period, and the same shall not be consider under change management.</p> <ul style="list-style-type: none"> • The NFAI may at any time, give written order to the MSI • In case there is requirement of NFAI to make provision for providing additional Hosting Infrastructure or additional services not covered within the general scope as defined in the RFP document, NFAI may give written directions to the MSI to ensure new requirements are met with. • Any change requests coming in within the three months from date of Commissioning, shall be delivered by the MSI without any additional cost to the project. • The change order/management procedure will follow the following steps: <ul style="list-style-type: none"> o It will be at the discretion of NFAI to review and accept any variation proposed by MSI within 10% of

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
						<p>the approved estimates. The total change request cost shall not exceed 10% of the approved estimates.</p> <ul style="list-style-type: none"> o Identification and documentation of the requirement for the change: The information related to the initiator, initiation date, Priority of the change will be documented by NFAI. o Analysis and evaluation of the Change Request: The impact of the change in terms of the estimated effort changed schedule, cost based on the financial Bid and the items impacted will be analyzed and documented by the MSI. o Approval or Disapproval of the change request: NFAI shall approve or disapprove the change requested after discussion with MSI on the impact of the change. o Implementation of the change: The change will be implemented in accordance to the agreed cost, effort, and schedule. o Verification of the change: The change will be verified by NFAI on the implementation of the change request. <ul style="list-style-type: none"> • MSI shall ensure all the necessary testing, UAT, Audits, certification is completed as per requirements with no extra cost the to NFAI. Within maximum of 7 working days of the receipt of such written order, MSI shall communicate in writing to the NFAI the changes if any which may be caused to the delivery schedule, costs, technology, etc. and the parties shall mutually agree on the same before giving effect to such changes, if the changes

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
						<p>requested are outside the scope of MSI agreed to herein. If the efforts are greater than 10%, NFAI reserves the right to either approve the request or go to market for price discovery and award. All changes which may have likely financial implications in terms of the overall cost / time of the project shall be undertaken by the MSI only after securing the express consent of NFAI. In the event the consent of NFAI is not received within a period of 15 working days from the date of communication of MSI, then the change will NOT be carried out and same shall be communicated by NFAI. The impact of the change in terms of the cost and schedule will be re-estimated and such approval on the new cost and schedule will be taken, if the change is approved after the 15 days. If any of such change causes an increase or decrease in cost of or the time required for MSI's performance of any provisions under the Agreement, equitable adjustments shall be made in the Agreement Price or Delivery Schedule, or both and the Agreement shall accordingly be amended. Any claims by MSI for adjustment under this must be asserted within 30 (thirty) days from the date of bidder receiving the NFAI change order. Any changes in the scope of work shall be finalized with the NFAI's approval. The MSI shall detail out and discuss specific changes in the scope of work with the NFAI before incorporating them in the plan of action. Any deviations from the scope of work shall be highlighted at the earliest.</p>
53	5. SLA & Payment Milestones	1	Payment Milestones	110	Point no 8. 20% of the remainder project value will be paid at the end of each quarter for the O&M period	<p>The revised clause to be read as:</p> <p>Equal parts of 20% of the remainder project value will be paid at the end of each quarter for the O&M period</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
54	4. Evaluation Process	4	4. Technical Evaluation Criteria	100	<p>Quality and adequacy of each of the following proposed teams as per the details mentioned in the CVs of the resources:</p> <p>a. Project Manager</p> <p>b. Solution Architect</p> <p>c. Technical Specialist – Network, Server, Storage</p> <p>d. Technical Specialist – Data Base Administrator</p> <p>e. Enterprise Solution (MAM/ PAM/ DAM/OTT) Management Team</p> <p>Note:</p> <p>i. In the CVs, it shall be required to mention the details of the relevant work carried out by the resources proposed and CV should be as per the format mentioned in Chapter 6, Section 15</p> <p>ii. Details to be provided as per Annexure Chapter 6, Section 14</p> <p>iii. (Additional weightage will be given to profiles who have worked on global projects)</p>	<p>The revised clause to be read as:</p> <p>Quality and adequacy of each of the following proposed teams as per the details mentioned in the CVs of the resources:</p> <p>a. Project Manager</p> <p>b. Solution Architect</p> <p>c. Technical Specialist – Network, Server, Storage</p> <p>d. Technical Specialist – Data Base Administrator</p> <p>e. Enterprise Solution (MAM/ PAM/ DAM/OTT) Management Team</p> <p>f. Cataloguing team (catalogue creation and updation, creation of taxonomies etc.)</p> <p>g. NFAI Website Maintenance staff</p> <p>Note:</p> <p>i. In the CVs, it shall be required to mention the details of the relevant work carried out by the resources proposed and CV should be as per the format mentioned in Chapter 6, Section 15</p> <p>ii. Details to be provided as per Annexure Chapter 6, Section 14</p> <p>iii. (Additional weightage will be given to profiles who have worked on global projects)</p>
55	2. Scope of work	15.7.5.4	15.7.5.4.Data Center/ Disaster Recovery (DC/ DR) Services	63	<p>i. Dedicated Point to Point Bandwidth for DC-DR data replication based on the Service Level Agreement (SLA) requirement</p>	<p>This Clause stands deleted</p>

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP		Revised clause of the RFP			
56	4. Evaluation Process	3.	3. Prequalification Criteria	98	2.8	The Single Entity / any member of consortium should submit the Manufacturers Authorization Form for all hardware they are to commission for the project	• MAF as per the format enclosed in Annexure 18	2.8	The Single Entity / any member of consortium should submit the Manufacturers Authorization Form for all hardware they are to commission for the project	<ul style="list-style-type: none"> • MAF as per the format enclosed in Annexure 18 • Technical Support Arrangement with OEM as per format mentioned in Section 6 of Corrigendum -1.
57	6. Annexure	2.1.3.	2.1.3. Backup & Media Storage Area		<p>2.1.3. Backup & Media Storage Area</p> <p>This area will be used for storing all backed up Digital Linear Tapes (DLT). This area will house a 3 x 3 x 6 Feet fireproof cabinet for storing roughly 350 tapes. It is also highly recommended to have an offsite backup location at some suitable place. The offsite backup place should also have a fire and heat proof safe cabinet.</p>		<p>The revised clause to be read as:</p> <p>2.1.3. Backup & Media Storage Area:</p> <p>This area will be used for storing all backed up Digital Linear Tapes (DLT). The first set of LTO Tape shall be maintained in the NFAI vault (in Pune) by MSI. The Second set of LTO tapes shall be stored in a regional office of NFAI and is not in the scope of work of the MSI.</p> <p>There is no need for MSI to procure a fireproof cabinet for either DC or DR location.</p>			

#	Chapter	Section No.	Section Name	Page No.	Content of the RFP	Revised clause of the RFP
58	2. Scope of work	15.3.5.	15.3.5. OTT Platform	51	xvi. The OTT platform should be able to handle at least 500 concurrent users from Go-Live with, option of upward scalability on number of concurrent users, MSI to consider organic growth in the number of concurrent users.	<p>The revised clause to be read as:</p> <p>xvi. The OTT platform should be able to handle at least 50,000 concurrent users from Go-Live with, option of upward scalability on number of concurrent users to 100,000. MSI to consider organic growth in the number of concurrent users</p>

Annexures to Corrigendum

1. In the entire RFP, Tier- III to be read as Tier-3.
2. Chapter 6, Annexure 4.2., Non-filmic files at NFAI to be read as Annexure 4.2, Non-filmic and filmic material files at NFAI with following changes:

I. Non – Filmic data distribution Volume

#	Particulars	Quantity	Size (in MB)	
			JPEG	TIFF
1	Wallposters	36,860	20-120	80-480
2	Song Booklets	21,893	5-20	-
3	Pamphlets	5,479	2-7	-
4	Stills	202,728	20-60	80-240
5	Slides	9,402	5-20	
6	Press Clippings	199,360	5-12	
7	Total	475,722		

Note: The numbers mentioned above are indicative and are for providing a broad overview of the quantum at NFAI

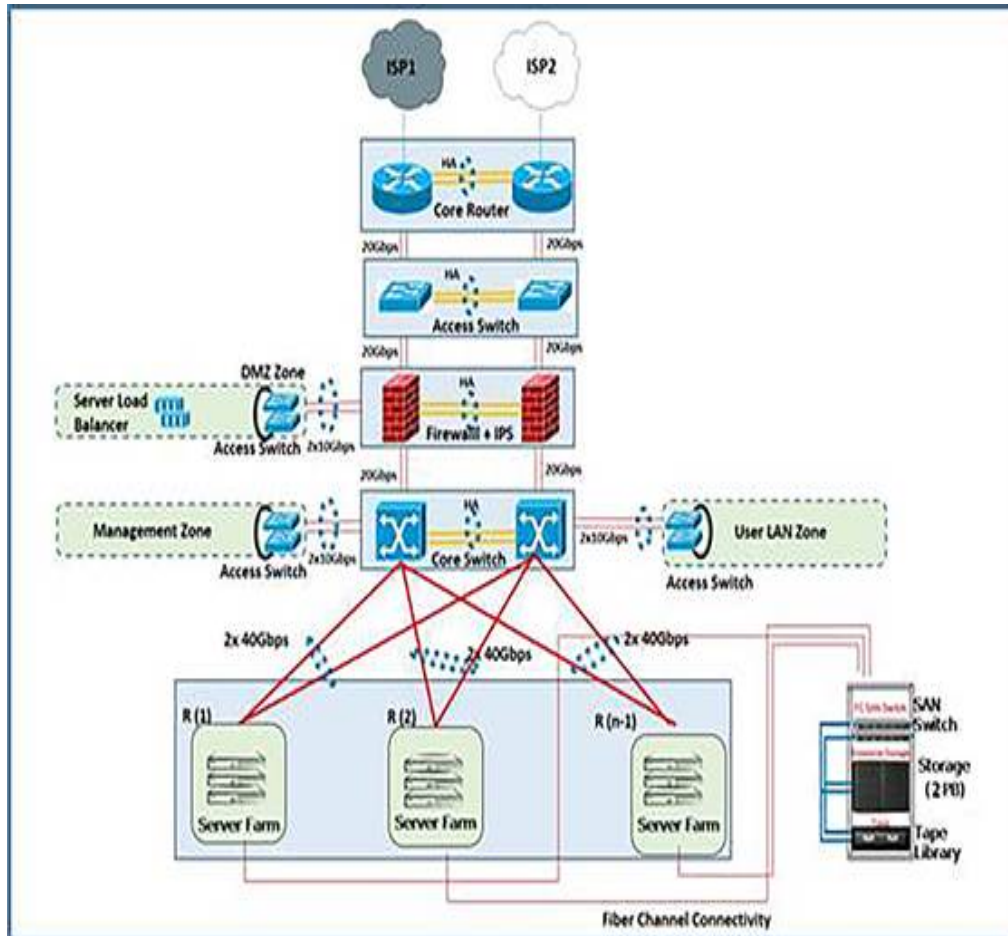
II. Filmic data distribution

#	Particulars	Format	Metric	Storage Media	Quantum (per format)	File size
1	Filmic material	DCP	No. of films	LTO7 or higher version tapes	5,113	0.25 TB
		HD				0.08 TB
2	Born Digital Films	DCP	No. of films	LTO7 or higher version tapes	1,200	0.25 TB
		HD				0.08 TB
3	VHS	MOV	No. of films	Blu-ray Disk	1,500	
4	U-matic Tapes	MOV	No. of films	Disk	3,000	
5	Betacam & Digibeta	MOV	No. of films	Disk	5,500	
6	Non-filmic material	PDF, jpeg	No. of pages	LTO7 or higher version tapes	475,722	

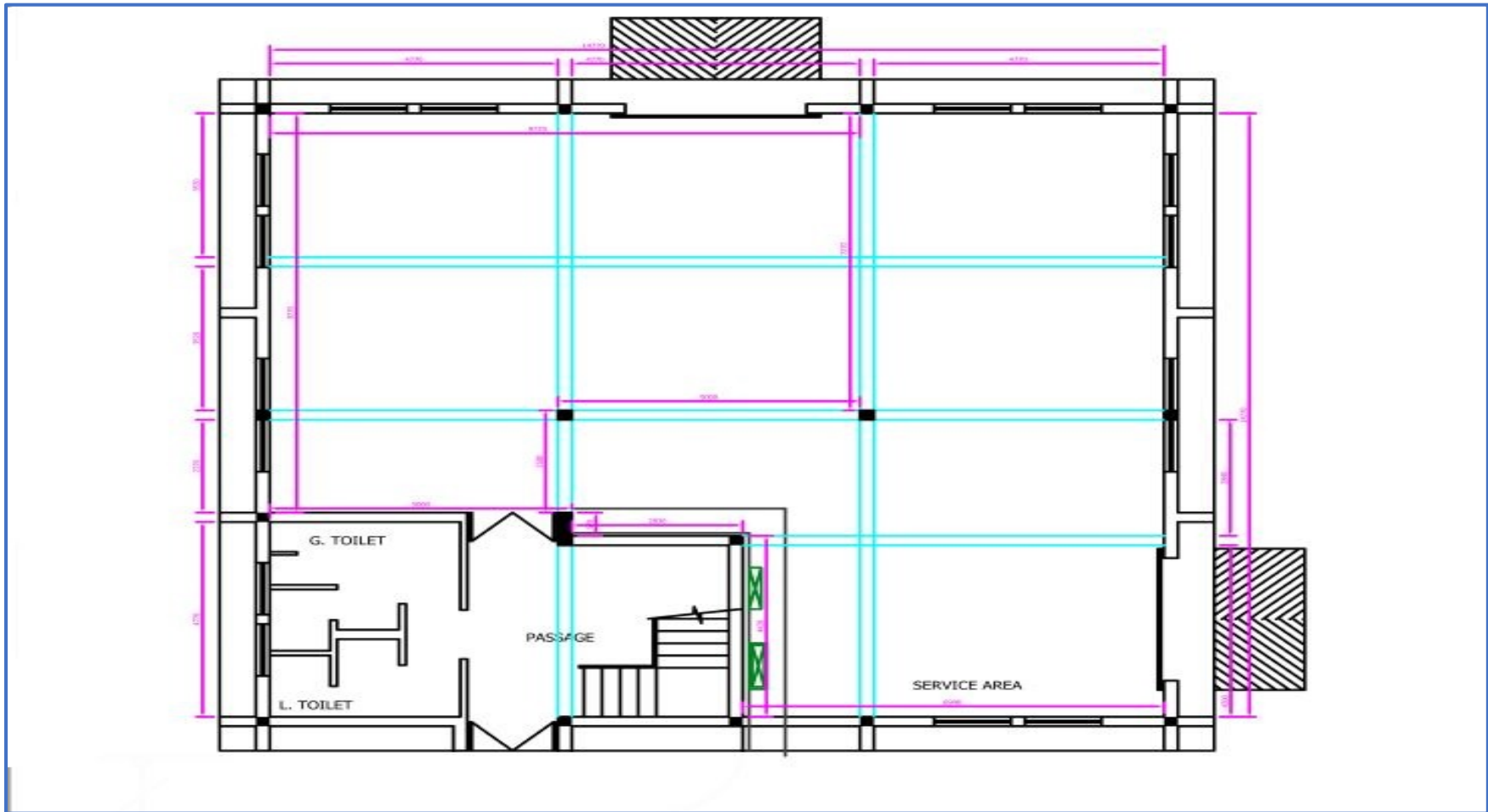
3. Chapter 6, Annexure 4.3., Storage sizing assumption table, following changes have been made

Data Center				
#	Storage Process	Media Type	Format	Size (in TB)
1	Low Res. Access Copies	Video	HD	263
2	Low Res. Access Copies	Video	MOV	558
4	Non filmic material	Document	pdf, jpeg	15
5	Born Digital Films	Video	HD	960
6	TOTAL (in TB)			1795
7	Buffer			20%
8	Total (in TB) with buffer			2154
9	TOTAL (in PB)			2

4. Chapter 2, Section 15.7.5.3, Network Architecture, and Under Chapter 6, Section 1, Technical Requirements, the following changes have been made



5. Layout for Proposed Data Center



6. Undertaking - Technical Support Arrangement with OEM

<< To be printed on Bidder/ Lead Bidder Company's Letter Head, signed by Authorized Signatory>>

Tender No.:

Date:

To,
Administrative Officer,
National Film Archive of India
Law College road,
Pune- 411004

Dear Sir,

Subject: RFP for Selection of Master System Integrator (MSI) for implementation of NFAI's Data Center and Enterprise Solution (NES) under National Film Heritage Mission (NFHM) for a period of 5 years - Technical Support Arrangement with OEM

We, the undersigned, having read and examined the requirements of the project, have licensed all our products / COTS that shall complement the solution in the best possible way and that all the business and functional requirements shall be fulfilled either by the products/COTS or through customizations.

We have/shall enter(ed) into requisite arrangements with the OEMs for the following:

- **Professional Services and Technical Support:** We confirm that we have chosen the products from OEMs who have professional support services in India (or through their authorized channel partners) as per requirements of the RFP. These professionals shall be made available physically as and when required for supporting all technical aspects of project implementation, solution maintenance and support during entire period of Project including extended period if any as stated in RFP.
- **Vetting of solution:** We confirm that OEM's support shall be taken for vetting of the technical solution as proposed and implemented.

It is hereby confirmed that I/We are entitled to act on behalf of our company and empowered to sign this document as well as such other documents, which shall be required in this connection.

Summary of Arrangement with OEMs for implementation and operations support

S. No.	OEM Name and Registered Office	Product	Arrangement for Technical Support

(Signature of the Authorized signatory of the Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address: