

TENDER DOCUMENT

**Procurement of Server (One) and
Storage (SAN with 50 TB usable Capacity)
for National Cultural Audiovisual Archives Project**

(File No. 17/09/2015-SD/CIL)

March, 2015



**Indira Gandhi National Centre for the Arts
11 Mansingh Road, New Delhi - 110001
www.ignca.gov.in**

SECTION I: INSTRUCTIONS

1 Introduction

- 1.1 Indira Gandhi National Centre of Arts is an autonomous body under the Ministry of Culture, Government of India engaged in research, documentation, preserving and dissemination of Indian arts and culture. Under National Cultural Audio Visual Archives (NCAA) project of the Ministry, the IGNCA is setting up a digital archives of the audio/video holdings to preserve and disseminate the contents to the scholars, researchers and the public at large.
- 1.2 Large volume of digital data is projected to be archived under the NCAA and the same will be finally stored at the secured data centre of the NIC. There is a need for procurement of a 50 TB usable SAN Storage, and a Server to process the data at IGNCA, before uploading the same at NIC.
- 1.3 Vendors are invited to submit their proposals for undertaking the above assignment. A proposal for the assignment must include the following, as stated later in this document:
 - (i) Relevant documents in support of minimum eligibility conditions,
 - (ii) A Technical Bid and
 - (iii) A Financial Bid
- 1.4 Please note that (i) the cost incurred in bidding for this assignment including a visit to IGNCA is not reimbursable; and (ii) IGNCA is not bound to accept any of the proposals submitted.
- 1.5 The Vendors are required to hold the IGNCA's interests paramount, without any consideration for future work, and strictly avoid conflicts with other assignments or their own corporate interests.
- 1.6 Vendors must observe the highest standards of ethics during the selection and execution of work. IGNCA may reject a proposal at any stage if it is found that the Vendor recommended for award has indulged in corrupt or fraudulent activities in competing for the contract in question, and may also declare the Vendor ineligible, either indefinitely or for a stated period of time, if at any time it is found that the Vendor has engaged in corrupt or fraudulent practices in competing for, or in executing, the work.
- 1.7 Tenders that address only part of the requirements shall be deemed as incomplete, and shall be rejected out rightly. It is on part of the vendor to ensure that the proposal is complete in all aspects of **hardware, installation and commissioning**.
- 1.8 EMD must be submitted along with Technical bid. Without EMD the technical bid will be rejected and in such case the financial bid of the vendor will not be opened.

- 1.9 Tenders sent by **FAX** will not be considered. Tenders found in sealed box will only be considered. **To avoid any complications with regard to Late Receipt / Non Receipt of Tenders, it may please be noted that responsibility rests with the vendor to ensure that tenders reach this HQ before due date. Late quotes will be rejected out rightly.**
- 1.10 IGNCA also reserves the right to accept or reject any or all the offers without assigning any reasons. The sealed tender along with the Demand Draft/Pay Order should reach/addressed to **Director, Cultural Informatics Lab (CIL), IGNCA, 11, Man Singh Road, New Delhi** within 15 days from the date of receipt of this Tender Document. The quotations must reach this office by due date, no later than 3 PM. No responsibility will be taken for postal delay or non-delivery / non-receipt of tender documents.

2 Minimum Eligibility Criteria for Vendors

- 2.1 The vendor should enclose the **valid Manufacturer Authorization Form (MAF) from OEM.**
- 2.2 Vendors shall provide a copy of PAN/TAN/TIN number of the firm.
- 2.3 The firm should have turnover of at least Rs. 5 Crores for supply of hardware etc, during the last two years, adequately supported by a copy of the balance sheet.
- 2.4 Vendors must have experience of installing/servicing of similar equipment at least at three reputed locations. Vendor should provide a list of such installations and locations within India, mandatorily using **FORM 1 of Section II of this tender.**
- 2.5 Vendors must submit an EMD for Rs. 50,000/- (Rs. Fifty thousand) in the form of Demand Draft/Pay order drawn in favor of IGNCA, New Delhi. EMD in any other form will not be accepted. **Without EMD the bid will be rejected, and in such case the bid of the vendor will not be opened.**

3 Clarification and Amendment of RFP Document

Vendors may request a clarification on any aspect of the RFP document before the proposal submission date. At any time before the submission of proposals, the IGNCA may, for any reason issue a clarification or amend the RFP. These amendments/clarifications will be placed on the website of the IGNCA.

4 Preparation of Bid

- 4.1 Vendors are requested to submit relevant documents in support of minimum eligibility conditions, Compliance sheet, a Technical Bid and a Financial Bid as specified in the RFP.
- 4.2 The quotations should be provided separately in sealed envelopes, marked as-

- (i) Documents in support of eligibility criteria
- (ii) Technical Bid - *Vendors shall send complete descriptive technical details*
- (iii) Financial Bid - *Vendors shall send complete descriptive financial details*
- (iv) Bid Compliance sheet – See Form 4 below
- (v) Technical Compliance sheet – See Form 5 below

4.3 Minimum Eligibility Criteria

The exact information on various eligibility criteria as mentioned in para 2 may be furnished in a separate sealed cover with supporting documents. The technical bids of only those vendors will be evaluated who meet the minimum eligibility criteria.

4.4 Technical Bid

The Vendors are expected to provide the Technical Bid as specified in the RFP. Material deficiencies in providing the information requested may result in rejection of a bid. The Technical Bid shall provide the following information:

- (i) **Technical Specifications** - Following items are required :
 - a. SAN Storage (50 TB usable).
 - b. Server

a. **SAN STORAGE TECHNICAL DETAILS Qty. 1**

S/N	Parameters	Specifications Required
1	Required Disk Space & Disk Support	The Proposed SAN Array should be configured with: Minimum 50 TB Usable Capacity is required in RAID-5 with using 4 TB or higher drives. *The Proposed SAN Array should be scalable to minimum 300TB Usable capacity using 4 TB drives in future up-gradation / Expansion *The proposed SAN Array should support intermixing of SAS, NL SAS and SSD Disks of various capacities. *The array should support 6 Gbps Drives.
2	Connecting Ports (SAN)	The Proposed SAN Array should have minimum of 2 * 10 Gbps iSCSI Host ports and 2 * 6 GBPS SAS/FC Ports per Controllers. The quoted model should support FC connectivity in lieu of iSCSI Minimum 4 Gbps End-To-End Path Bandwidth.
3	Protocol Supported	The Proposed SAN Array should support FC and iSCSI protocol
4	RAID Controllers	The proposed SAN Array should have Dual Controllers, both Active and be configured with Minimum 16 GB cache across the two Controllers (8 GB per Controller)

5	RAID Levels	0/1,4/5 and 6 or better
6	Cache Safety	The Cache of proposed SAN Array should be mirrored and Battery Backed-up / Disk De-Staged, to provide protection of data for minimum 72 Hrs.
7	Management Software	The proposed SAN Array must include Storage Manager Software, to centrally manage all storage subsystems, Multi-Path (Load Balancing & Failover), LUN Masking and should also support RAID migration on the vacant space available
8	Redundancy	Provision for Redundancy (No Single Point of Failure) of Disk Drives , Controllers , Fans & Power Supplies
9	Data Services	The proposed SAN Array should include data Snap Shot, Thinprovisioning, Tiering, and Volume Cloning or equivalent features for the offered capacity. The proposed SAN Array should also include Storage based replication software (Any hardware, if required, needs to be provided)
10	Reconfiguration	The proposed SAN Array must support RAID / LUN migration and Tiering.
11	OS Support	The SAN Array should support for Multiple Operating System connecting to it, which includes Windows, Unix, Linux, AIX, HP UX, etc.
12	Warranty And Support	03 Yrs. Comprehensive On-Site support warranty including Part Replacement/ Repairs with 08 Hrs. of Reporting and Software support for updates, patches and Bug Fixes for the supplied software from OEM. 24 x7 x365
13	Alerts	Automated Alerts for improving service response time.
14	Rack	42U
15	Other	All required cable and connectors to be supplied for seamless integration

b. **SERVER TECHNICAL DETAILS**

S/N	Parameters	Specification Required
1	Chassis	1U Rack
2	Chipset	Intel C610
3	Processors	2 x Intel Xeon E5- 26xx v3 Processor (@2.4 Ghz or Higher, QPI, Turbo, HT, 1866 MHz) Processor Sockets: 2 , Internal Connect: 8.0 GT/s Minimum Core: 6
4	Memory	Minimum 12 Slots of DDR4 DIMMs at upto 2133 MT/s Minimum Memory Requirement: 32 GB Maximum Memory Expandable upto: 384 GB Minimum 8 DIMM Slots should be available for further memory expansion
5	Memory Protection	Advance ECC
6	Storage	SAS, SATA, Nearline SAS, SSD

	Supported	
7	Drive Bay	Minimum 4 x 3.5" Hot-Plug
8	Hard Drives	2 x 1 TB 7.2K NL SAS 6 Gbps 3.5" Hot-Plug Hard Drive
9	RAID Controller	RAID Controller to implement RAID1
10	Optical Drive	DVD +/- RW, SATA, Internal
11	Network Controller	Integrated Quad Port 1 GbE
12	Communication	2 x Single Port 10 Gb Base-T Network Adapter (With ToE and iSCSI Offload) 1 x Single-Port 8 Gbps FC HBA
13	Graphic Card	Video Type: Integrated Video Memory: 16 MB Shared
14	Monitor	21 inch
15	Keyboard, Mouse	Optical
16	Power Supply	Dual, Hot Plug, Redundant Power Supply (1+1), Minimum: 550W
17	Diagnostics	Front Panel providing LED map to Failing Part
18	Availability	ECC Memory, Single Device Data Correction (SDDC) Spare Rank, Hot-Plug Hard Drives Hot-Plug Redundant Power, Support for HA Clustering Virtualization Ready Internal Dual SD Module (Failsafe Hypervisor) TPM 1.2
19	System Management & Configuration	IPMI 2.0 Compliant Energy Star
20	Remote Management	Remote Management Module to enable remote presence
21	Rack Rails	Sliding Rails with Cable Management Arm
22	OS Supported	Microsoft Windows Server 2008/12 SP2, x86/64 (x64 includes Hyper-V) Microsoft Windows Server 2008/12 R2, x64 (includes Hyper-V) Novel SUSE Linux Enterprise Server, Red Hat Enterprise Linux, VMware vSphere
23	Warranty & Support	03 Yrs. On-Site with 4 Hrs. Service

(ii) The vendor **must submit relevant OEM documentation** of the required hardware for technical evaluation purpose.

(iii) Provide references from the OEM for providing onsite comprehensive maintenance of the quoted item for a period of three (3) years.

- (iv) Any awards or other recognitions achieved.
- (v) The vendor must provide a Technical Bid covering letter as specified in **FORM 2 of Section II of this tender.**
- (vi) The vendor must provide a Technical Compliance sheet with detail information, as specified in **FORM 5 of Section II of this tender.**

The Technical Bid shall not include any financial information.

4.5 Financial Bid

- (i) In preparing the Financial Bid, Vendors are expected to take into account the requirements and conditions outlined in the RFP document.
- (ii) **The Financial Bid should be valid for at least 90 days from the last date of submission of Bids.**
- (iii) Tenders must be furnished quoting **FIRM & FIXED** rates.
- (iv) The vendor must provide a Financial Bid covering letter as specified in **FORM 3 of Section II of this tender.**
- (v) The financial bid should quote cost for all the items. The quotations in respect of each item should be submitted in the following format:

(A) Costs for Supply, Installation & Commissioning of Goods format:

S.N.	Item Description	Qty	No of Units	Unit Rate (INR)	Total Unit Cost	Total Cost Including Taxes (8)=(4)x(7) (INR)
1	2	3	4	5	7	8
A	SAN Storage with 42U rack	Nos.				
B	Server	Nos.				
C	Installation and Commissioning charges					
Total Cost for Supply, Installation and Commissioning of above items						

(B)

S.N.	DETAILS	TO BE FILLED BY THE FIRM
1.	Is your company exempted from payment of Sales Tax and Excise Duty ? (Answer in YES / NO)	
2.	<u>Are duties extra? (Answer in YES / NO)</u> If Duty is extra, indicate the extent / current rate of Excise duty leviable for item. <u>Surcharges on duty</u>	
3.	<u>Are Taxes extra? (Answer in YES / NO)</u> If Taxes are extra, specify details and indicate the rate.	
4.	Any other duty / levy	
5.	Details of EMD	
6.	Acceptance of Performance Bank Guarantee on confirmation of order	

(vi) Prices must be quoted on F.O.R. Destination basis by road inclusive of Packing, Forwarding, Freight charges, Transit Insurance and any other charges as applicable. The consignee for the contract is IGNCA.

(vii) **Taxes & Levis.** - Details of Excise Duty, Taxes and Levies if any, are to be highlighted clearly.

(viii) **Performance Guarantee.** - The vendor shall offer and furnish a Performance Guarantee by way of Bank Guarantee **for a sum equal to 5%** of the contract value within a week of receipt of Letter of Acceptance. Bank Guarantee should be valid up to warranty of stores.

5 **Submission, Receipt, and Opening of Bids**

- 5.1 The original Bid (Minimum Eligibility Criteria, Technical Bid and Financial Bid) alongwith Bid compliance sheet shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the firm itself. Any such corrections must be authenticated by the Vendor.
- 5.2 The Minimum Eligibility Criteria alongwith Bid compliance sheet shall be placed in a sealed cover clearly marked ‘Minimum Eligibility Criteria for (name of assignment)’. Similarly, the Technical Bid alongwith Technical compliance sheet shall be placed in a sealed envelope clearly marked ‘Technical Bid for (name of assignment)’. Further, the Financial Bid shall be placed in a sealed envelope clearly marked ‘Financial Bid for (name of assignment)’.
- 5.3 All three envelopes shall be placed into an outer envelope and sealed. This outer envelope shall bear the submission address and be super scribed ‘**Bid for (name of assignment)**’.
- 5.4 **The completed Minimum Eligibility Criteria, Technical and Financial Bids must be submitted not later than 03:00 hours on _____ to the –**
Director,
Cultural Informatics Lab, IGNCA,
11, Man Singh Road,
New Delhi -110001
- 5.5 The IGNCA may, at its discretion, extend the deadline for the submission of Bids. Any Bid received after the closing time for submission of Bids shall be returned unopened. The Technical Bids will be opened the presence of representatives of applicant firms, which choose to be present.
- 5.6 After the deadline for submission of Bids, first the minimum eligibility criteria document will be opened. Technical Bids of only those meeting the minimum eligibility criteria shall be opened/ evaluated. The Financial Bids shall remain sealed and will be opened in respect of the firms, which qualify in the Technical evaluation.
- 5.7 The Financial Bid will be opened by a Committee and if firm desires, may depute their representative, duly authorized in writing, to be present at the time of opening of tenders. The date, time and venue fixed for this purpose will be intimated separately after the Technical evaluations are completed.
- 5.8 The IGNCA may reject any Bids without assigning any reason.

6 **Bid Evaluation**

6.1 **General**

- (1.i) From the time the bids are opened to the time the contract is awarded, if any vendor wishes to contact the IGNCA on any matter related to its proposal, it should do so in writing. Any effort by the firm to influence the IGNCA in the IGNCA's proposal evaluation, proposal comparison or contract award decisions may result in the rejection of the Bidder's proposal.

- (1.ii) The IGNCA will select a vendor from those who submit proposals in accordance with the Technical and Financial Bids.

6.2 Evaluation of Minimum Eligibility

- (2.i) The broad guidelines for evaluation of MEC will be as per the guidelines given at para. 2 of this document. **Bid without EMD will be rejected and vendor's bid will not be opened.**

6.3 Evaluation of Technical Bids

The broad guidelines for evaluation of offers will be as follows:--

- (3.i) Technical bids of only those Firms will be opened who meet all points as mentioned in the minimum eligibility criteria at para. 2 above.
- (3.ii) Only those offers shall be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the tender, technically.
- (3.iii) The technical compliance of the proposed hardware with the RFP requirements will serve as the sole primary parameter for evaluation.

6.4 Evaluation of Financial Bids

- (4.i) After the evaluation of Minimum Eligibility Criteria is completed, the IGNCA shall notify those vendors whose proposals did not meet the minimum eligibility criteria were considered non-responsive to the RFP, indicating that their Technical / Financial Bids will be returned unopened after completing the selection process.
- (4.ii) The IGNCA will determine whether the Financial Bids are complete, and correct any computational errors, if any.
- (4.iii) The vendor who quotes least price will be considered as L1 and shall be regarded as the selected vendor for awarding the work order.

7 Delivery Period

Within 30 days

8 Payment Terms

Payment shall be released after successful completion of Installation and commissioning of the items.

SECTION II: FORMS

FORM 1. Relevant Work handled that best illustrates the nature of Work and client for whom handled the Assignment

(Using the format below, provide information on each reference assignment)

Assignment Name:		Country:
Location within Country:		
Name of Client:		
Address:		Duration of assignment:
Start Date (Month/Year):	Completion Date (Month/Year):	Approx. Value of Services (in Rs crore)
Narrative Description of Project:		
Description of Actual Services Provided by You.		

FORM 2. TECHNICAL BID SUBMISSION FORM

[Location, Date]

From:

[Name of the Vendor]

To:

Name

Address

Subject: Services for “ ----- ”.

Sir,

I, the undersigned, offer to provide the services for the ‘-----’ in accordance with your Request for Bid dated [Date]. I hereby submit my Technical Bid.

I understand you are not bound to accept any Bid you receive.

Yours Sincerely,

Signature:

Name & Designation of the Vendor

Address:

FORM 3. FINANCIAL BID SUBMISSION FORM

[Location, Date]

From:

[Name of the Vendor]

To:

Name

Address

Subject: Services for “ ----- ”.

Sir,

I, the undersigned, offer to provide the services for “-----
--” in accordance with your Request for Bid (RFP) dated [Date] and our Technical Bid. Our attached Financial Bid is for the sum of [Amount(s) in words and figures]. This amount is exclusive of the local taxes, which we have estimated at [Amount(s) in words and figures].

My Financial Bid shall be binding upon us, up to the expiry of the validity period of the Bid, i.e. [Date].

I understand you are not bound to accept any Bid you receive.

Yours Sincerely,

Signature:

Name & Designation of the Vendor

Address:

FORM 4

(Bid Compliance Sheet)

Sl.No.	Description of documents/information attached	To be filled by the firm in (YES/NO), with details
1	Acceptance of Performance Bank Guarantee on confirmation of order	
2	EMD for Rs. 50,000/- (Rs. Fifty Thousand only) in the form of Demand Draft/Pay order drawn in favor of IGNCA, New Delhi. Details of EMD _____	
3	Valid Authorization Letter (MAF) from OEM.	
4	Company profile along with registration number of the firm with PAN/TAN/TIN number of the firm	
5	Details of at least 3 nos. of clientele where similar nature of work has successfully completed as specified in FORM 1 of Section II of this tender.	
6	Awards or other recognitions achieved, if any.	
7	A self certificate to this effect that the firm is not blacklisted by any State/ Central/PSU/ Autonomous Body for executing such contract/AMC work	
8	Stamped and Signed copy of the RFP document as a proof that the terms and conditions have carefully been read by the Vendor and they are ready to abide by them.	
9	Details of pre-requisite, if any	
10	Technical Bid submission as per FORM 2 of Section II of this tender	
11	Financial Bid submission as per FORM 3 of Section II of this tender	
12	Any other information, if any _____	

FORM 5

(Technical Compliance Sheet)

a. SAN STORAGE

S/N	Parameters	Specification Asked For	Compliance, with details
1	Required Disk Space & Disk Support	<p>The Proposed SAN Array should be configured with: Minimum 50 TB Usable Capacity is required in RAID-5 with using 4 TB or higher drives.</p> <p>*The Proposed SAN Array should be scalable to minimum 300TB Usable capacity using 4 TB drives in future up-gradation / Expansion</p> <p>*The proposed SAN Array should support intermixing of SAS, NL SAS and SSD Disks of various capacities.</p> <p>*The array should support 6 Gbps Drives.</p>	
2	Connecting Ports (SAN)	<p>The Proposed SAN Array should have minimum of 2 * 10 Gbps iSCSI Host ports and 2 * 6 GBPS SAS/FC Ports per Controllers. The quoted model should support FC connectivity in lieu of iSCSI Minimum 4 Gbps End-To-End Path Bandwidth.</p>	
3	Protocol Supported	<p>The Proposed SAN Array should support FC and iSCSI protocol</p>	
4	RAID Controllers	<p>The proposed SAN Array should have Dual Controllers, both Active and be configured with Minimum 16 GB cache across the two Controllers (8 GB per Controller)</p>	
5	RAID Levels	<p>0/1,4/5 and 6 or better</p>	
6	Cache Safety	<p>The Cache of proposed SAN Array should be mirrored and Battery Backed-up / Disk De-Staged, to provide protection of data for minimum 72 Hrs.</p>	
7	Management Software	<p>The proposed SAN Array must include Storage Manager Software, to centrally manage all storage subsystems, Multi-Path (Load Balancing & Failover), LUN Masking and should also support RAID migration on the vacant space available</p>	
8	Redundancy	<p>Provision for Redundancy (No Single Point of Failure) of Disk Drives , Controllers , Fans & Power Supplies</p>	

9	Data Services	The proposed SAN Array should include data Snap Shot, Thinprovisioning, Tiering, and Volume Cloning or equivalent features for the offered capacity. The proposed SAN Array should also include Storage based replication software (Any hardware, if required, needs to be provided)	
10	Reconfiguration	The proposed SAN Array must support RAID / LUN migration and Tiering.	
11	OS Support	The SAN Array should support for Multiple Operating System connecting to it, which includes Windows, Unix, Linux, AIX, HP UX, etc.	
12	Warranty And Support	03 Yrs. Comprehensive On-Site support warranty including Part Replacement/ Repairs with 08 Hrs. of Reporting and Software support for updates, patches and Bug Fixes for the supplied software from OEM. 24 x7 x365	
13	Alerts	Automated Alerts for improving service response time.	
14	Rack	Rack 42U	
15	Other	All required cable and connectors to be supplied for seamless integration	

b. SERVER

S/N	Parameters	Specification Asked For	Compliance, with details
1	Chassis	1U Rack	
2	Chipset	Intel C610	
3	Processors	2 x Intel Xeon E5- 26xx v3 Processor (@2.4 Ghz or Higher, QPI, Turbo, HT, 1866 MHz) Processor Sockets: 2 , Internal Connect: 8.0 GT/s Minimum Core: 6	
4	Memory	Minimum 12 Slots of DDR4 DIMMs at upto 2133 MT/s Minimum Memory Requirement: 32 GB Maximum Memory Expandable upto: 384 GB Minimum 8 DIMM Slots should be available for further memory expansion	
5	Memory Protection	Advance ECC	
6	Storage Supported	SAS, SATA, Nearline SAS, SSD	

7	Drive Bay	Minimum 4 x 3.5" Hot-Plug	
8	Hard Drives	2 x 1 TB 7.2K NL SAS 6 Gbps 3.5" Hot-Plug Hard Drive	
9	RAID Controller	RAID Controller to implement RAID1	
10	Optical Drive	DVD +/- RW, SATA, Internal	
11	Network Controller	Integrated Quad Port 1 GbE	
12	Communication	2 x Single Port 10 Gb Base-T Network Adapter (With ToE and iSCSI Offload) 1 x Single-Port 8 Gbps FC HBA	
13	Monitor	21 inch	
14	Keyboard, Mouse	Optical	
15	Graphic Card	Video Type: Integrated Video Memory: 16 MB Shared	
16	Power Supply	Dual, Hot Plug, Redundant Power Supply (1+1), Minimum: 550W	
17	Diagnostics	Front Panel providing LED map to Failing Part	
18	Availability	ECC Memory, Single Device Data Correction (SDDC) Spare Rank, Hot-Plug Hard Drives Hot-Plug Redundant Power, Support for HA Clustering Virtualization Ready Internal Dual SD Module (Failsafe Hypervisor) TPM 1.2	
19	System Management & Configuration	IPMI 2.0 Compliant Energy Star	
20	Remote Management	Remote Management Module to enable remote presence	
21	Rack Rails	Sliding Rails with Cable Management Arm	
22	OS Supported	Microsoft Windows Server 2008/12 SP2, x86/64 (x64 includes Hyper-V) Microsoft Windows Server 2008/12 R2, x64 (includes Hyper-V) Novel SUSE Linux Enterprise Server, Red Hat Enterprise Linux, VMware vSphere	
23	Warranty	03 Yrs.	
24	Support	On-Site with 4 Hrs. Service	