

F.No. 7-1/2015-NML-NVLI  
Government of India  
Ministry of Culture  
National Mission on Libraries

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Minutes of first meeting of the Advisory Committee of National Virtual Library of India (NVLI) under National Mission on Libraries (NML) held on 29<sup>th</sup> September, 2015 at 12.00 noon in the Chamber of Secretary (Culture), Shastri Bhawan, New Delhi - 110 001.

**Members Present :**

**Shri. N. K. Sinha**

Secretary (Min. of Culture)  
E-mail : [secy-culture@nic.in](mailto:secy-culture@nic.in)

**Chairperson**

**Prof. S.V. Raghavan**

Department of CSE  
IIT Madras, Chennai, 600 036, E-mail : [sv.raghavan@nic.in](mailto:sv.raghavan@nic.in)

**Member**

**Prof. Kannan M Moudgalya**

Room No: 311, Dept. of Chemical Engineering  
IIT Bombay, Powai, Mumbai 400 076 (Maharashtra),  
E-mail : [kannan@iitb.ac.in](mailto:kannan@iitb.ac.in)

**Member**

**Prof. Uma Kanjilal**

School of Social Sciences, DLIS, IGNOU  
Maidan Garhi, New Delhi - 110068, E-mail: [ukanjilal@ignou.ac.in](mailto:ukanjilal@ignou.ac.in)

**Member**

**Dr. Arun Kumar Chakraborty**

Mission Director, NML, Kolkata  
[akchakraborty2009@gmail.com](mailto:akchakraborty2009@gmail.com), [dq-rrrlf@nic.in](mailto:dq-rrrlf@nic.in)

**Member Convenor**

**Ministry of Culture Officials :**

**Ms. Deepika Pokharna**

Director (Lib.), [deepika.pokharna@gov.in](mailto:deepika.pokharna@gov.in)

**Shri. Shashanka Konduru, IAS**

Assistant Secretary, [shashanka.konduru@nic.in](mailto:shashanka.konduru@nic.in)

**Presentation by :**

**Dr. Dinesh Katre**, Associate Director and HoD, C-DAC, [dinesh@cdac.in](mailto:dinesh@cdac.in)

**Following Members could not be present in the meeting due to other pre-occupation:**

**Prof. Deepak B. Pathak**

Department of CSE, Kanwal Rekhi Building  
IIT, Bombay, Mumbai - 400 076, Email- [dbp@it.iitb.ac.in](mailto:dbp@it.iitb.ac.in), [dbp@cse.iitb.ac.in](mailto:dbp@cse.iitb.ac.in), [dbp@it.iitb.ac.in](mailto:dbp@it.iitb.ac.in)

**Member**

**Dr. Parthasarathi Mukhopadhyay**

HOD, DLIS, University of Kalyani, Kalyani 741235, WB  
Email: [psmukhopadhyay@gmail.com](mailto:psmukhopadhyay@gmail.com)

**Member**

At the outset Secretary (Culture), Chairperson of the Committee welcomed all the members and briefed them about the proposed NVLI project of the Ministry of Culture. Secretary (Culture) gave

Minutes : Meeting of 1<sup>st</sup> Advisory Committee of NVLI held on 29-09-2015 in the Secretary (Culture), Chamber, Delhi

a conceptual view of NVLI to the members and informed that NVLI would focus on cultural objects, rare books /documents, orphan books, museum objects, manuscripts, archival documents of NAI, all MoC organisations collection and would cover all type of resources required by the Indian citizens. Thereafter, he requested members to suggest facets required to be added in the NVLI project proposal submitted by the CDAC.

Members opined that 'Public Library Systems' are more robust and structured in most of the developed or developing countries across the globe. Public Library System serves as the information centre for the citizens in developed countries. Mission Director also stated that as per UNESCO manifesto, Public Library is known as "People's University, it is by the people for the people and of the people." The NVLI should also cater to various types of information needed by the citizens of India.

The committee opined that NVLI system should be designed in a robust manner, there should be provision to extrapolate and interpolate any facet in the system as and when required.

Prof. Raghavan opined that nomenclature of all MOC 'libraries' should be changed to 'Information Centre'. He emphasised the need to set-up "Community Information Centre" which would cater to the information need of citizens and proposed that 'Librarian' should be called as 'Information Scientist'. Prof. Raghavan also mentioned that open source software, platform and technology should be used for development of NVLI and it should be the property of NML. Source codes of NVLI should be made available to NML by CDAC. NML should be able to change any code at any given point of time as and when required. No proprietary item(s) should be used for development of NVLI. This would make the system more robust and sustainable.

Prof. Kannan also mentioned about Public Library facilities in Melbourne i.e. Melbourne-community library/ information centre. Prof. Uma Kanjilal also mentioned many of the missing links in the CDAC proposal and she stressed the need for inclusion of various services in the proposed NVLI project.

Members, after detailed deliberation suggested inclusion of the following features/services in the proposed NVLI project:

- Fairs/ exhibitions
- Reference Service
- Events to be organized- by Cultural organisations etc.
- Development of web-scale resource discovery services for array of Open Access resources related to Arts, Humanities and Social Sciences from OA repositories.
- Subscription of suitable E-resources (National Library needs to tie up with INFLIBNET and as well as with other existing national level e-resources consortia. Subscription of same resources by different consortia has resulted in huge loss of government resources. So optimal utilisation of subscribed resources should be the key issue which needs to be addressed. In this context Secretary (Culture) directed to convene a meeting of the coordinators of all the National Consortia and the Secretaries of the respective Ministries supporting the consortia like MHRD, CSIR, DST, DBT, ICAR etc. to find out a solution towards optimal utilisation of the subscribed resources. This would enable huge saving in the government exchequers and also the users would be benefited. All these resources should be part and parcel of NVLI, so as to rationalize the e-resources subscription and utilization policy.

- Virtual Museum with 3D, 360 degree panorama
- Search engine should be developed to facilitate, Catalogue search based on any item of the metadata, key words, authority files, ontology/ thesaurus based , Iconic things, Visual search etc.
- Challenge content key words
- Community Information Library / Centre
- Library of World Health Centre content

**Members also recommended that the following points need to be considered for access to resources :**

1. Distributed Information Centre / Data Centre -- petabyte/ Bigdata Centre
2. As network speed/bandwidth is one of the most important criteria for providing effective digital content delivery service, Prof. Raghavan stated that high bandwidth NKN connectivity should be made available by the NKN authority on receipt of request letter from the Secretary (Culture).
3. Numeric calculation of giga byte/ peta byte should be included in the project proposal of CDAC for NVLI.
4. Cloud based architecture/ portal may include social communication and interaction tools like Discussion forums, Blogs, wikis etc. developed based on open source software and open standards.
5. Development of Z.39.50 server as national distributed catalogue services. It may serve two purposes – (i), PAN-INDIA union catalogue of documentary resources and (ii) helping Indian libraries downloading validated MARC records from NVLI Z39.50 server to reduce unit cost of cataloguing and achieve standardization. Data from NL, CSL and other MoC libraries could be used for this purpose.
6. Implementation of Hadoop Cluster
7. Integration of different computer languages.
8. Services and requirements
  - a. Virtual performance desk
  - b. Real time support
  - c. Platform should support video channel/ integrated chat, simple text chat, word form etc.
  - d. Ask libraries
  - e. Assignments, etc.
  - f. Search service should be based on Ontology/ Thesaurus in different languages
  - g. Classified search engine/ federated search engine.
  - h. Standardization of Metadata is one of the key component of NVLI and it should be done through a committee.
  - i. Validation of data, cleaning of data harvested from different sources
  - j. Crowd sourcing
  - k. Content creation by citizens
  - l. E-health information system i.e. 'Patient Information System' -- data may be collected from patient and hospital.
  - m. Tacit knowledge to be captured, stored, processed and disseminate.
  - n. Authenticate data has to be collected
  - o. Inclusion of participative, collaborative and interactive tools to support user-driven ratings, reviews, tagging, folksonomy along side browsing and searching.
  - p. Harvested metadata may help in building a central index of resources at the software framework. PKP harvester should be used.
  - q. KOHA for cataloguing and D-space for digital archiving should be used in back-end.

After discussions Secretary (Culture) requested Dr. Katre of CDAC to make Presentation.

Dr. Katre made a presentation of the NVLI System as conceived by the CDAC.

**After presentation of CDAC, the committee recommended the following :**

- Secretary (Culture) stated that the entire proposal should be included in the Phase-I only and at least few facets should be available within six months from the date of award of the project or release of the first instalment of payment to CDAC
- Open source and open technology and software used would be NML property for perpetuity, way changed, code should be property of NVLI
- In Phase- 1 itself citizen should get some services from NVLI (rather than only experiencing the existence of NVLI.)
- At the end of Phase- 1, end user experience on NVLI would be captured.
- By 'Three clicks' information should be available to end users, who knows nothing.
- Built in disseminating strategy
- Digital resources should be available for use
- System Requirement Specification should be prepared.
- Modified and inputs all SRS etc --- Deliverable
- Standardization of Metadata would be required
- Bandwidth requirement etc. : should be included in the proposal itself.
- Hardware --- all hardware requirement and approx. Cost should also be included in the proposal.
- Life long learning module should be there – Open course materials available for learning should be included.

Limitation and constraints:/ INR:

1. Open access representatives - part of NVLI
2. Open access Journals
3. Customized download
4. RSS – Feeds, Newspaper aggregation etc.
5. Updating of MO/ Office order etc.
6. All the schedule languages to be covered.
7. Interface should be evaluated by social scientists/ commoner

The Committee requested Dr Katre to revise the proposal accordingly as per the above mentioned discussions and submit a revised proposal within ten days through e-mail to all the members for their comments and suggestions.

The meeting ended with a vote of thanks to the chair.

**(Dr. Arun Kumar Chakraborty)**  
Mission Director, NML and Convenor  
DG, RRRLF

**(N.K. Sinha)**  
Secretary (Culture)  
Ministry of Culture, GOI