

**Government of India, Ministry of Culture
National Mission on Libraries**

Minutes of 09th Meeting of the advisory Committee of National Virtual Library of India (NVLI) under National Mission on Libraries held on 06th June 2017 at 12.00 Noon.

The 09th Meeting of the Advisory Committee of National Virtual Library of India (NVLI) under the National Mission on Libraries (NML) was held on 06th June, 2017 at 12.00 Noon under the Chairmanship of Secretary (Culture) in his Chamber at Shastri Bhawan, New Delhi- 110 001. The list of participants is at Annexure.

At the very outset Secretary (Culture) welcomed all the members of the Advisory Committee and thereafter the following matters were taken up for deliberation.

ITEM 1: TO REVIEW THE PROGRESS OF DEVELOPMENT OF THE NVLI SOFTWARE

- a) Secretary (Culture) and other members advised CDAC to show some unique features of the system so as to convince the PM to inaugurate and launch the NVLI. CDAC officials informed that Cross Lingual Search, Ontology based browsing in the domain of Art, Culture & Tourism, single window searching of Government Documents & Schemes are some of the unique feature of the System.
- b) CDAC demonstrated the Cross Lingual Search system. However it was observed that the system is not ready for launching and substantial improvement is required. The question & answer system is inadequate in terms of Semantic Analysis, Predictive/ Auto suggestion, Trend analysis and related Natural Language Processing.
- c) Secretary (Culture) reiterated that the NVLI system should have full text searching & retrieval facility and provision for automatic OCR to create searchable PDF documents. It was observed that, OCR has not yet been integrated to facilitate full text indexing and Search. CDAC informed that they are using Solr search engine for full-text searching. However, there are problems in Indian Language OCR.
- d) Members present in the meeting unanimously felt that system developed lacks the larger vision envisaged while envisioning the NVLI System and it is nowhere ready for launching. Some members felt that the overall interface was not appealing. Members also observed that there is a lack of guidance on the part of CDAC and someone should be made responsible as already fifteen months have elapsed since the start of the project.
- e) Prof. Deepak B. Phatak made a presentation on the status of the works undertaken by the IIT, Bombay, CDAC and IGNOU with the following observations:

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- i. Mini Cloud will be ready by 30th June, 2017. It has been delayed due to non-availability of SSD.
- ii. IIT, Bombay has initiated two research groups under Prof. Ganesh Ramkrishnan and Prof Soumen Chakrabarti for development OCR for Indian Languages. RAs have been associated to work in these groups.
- iii. Appointment of Consultant for preparation of DPR for establishment of MoC Cloud at Delhi has been initiated.
- iv. CDAC has developed functions for most of the bubbles, however, Documentation is awaited, Big-data analytics is going-on, Basic System is expected to be ready within three months.
- v. Prof. Phatak requested again to put all activities in dash board and Github. CDAC has been promising in all the meetings.
- vi. CDAC was advised to acknowledge the Open Source Software used in the project.
- vii. IGNOU has completed Standardization work and data curation & data ingestion are ongoing.
- viii. Lot of integration works are pending.

f) In view of the above observations, the following decision were taken:

- i. The System is not ready for launching by the PM.
- ii. It was decided that the system must be made ready for launching by 1st August, 2017 so as launch it on 14th August 2017.
- iii. Secretary(Culture) categorically pointed out that, once the date for launching is fixed, it would be the responsibility of the respective PI and Co-PI's to satisfy the PM regarding the System.
- iv. Ministry of Culture would not take any responsibility in case the respective organization fails to satisfy/justify the PM regarding the project.
- v. It was decided that Prof. Phatak would monitor the progress of the project and will ensure that the larger vision and requirements thereof are accomplished.
- vi. It was decided that a meeting may be organized at CDAC, Pune to discuss the issues, finalise the modalities and guide the team accordingly.

The Meeting ended with a Vote of Thanks to the Chair.

(Pankaj Rag)
Joint Secretary (Lib) & Mission
Director, NML