

File No.NMEICT(MS)/PAB/26

Government of India
Ministry of Human Resource Development
Department of Higher Education

13th December, 2013

To,

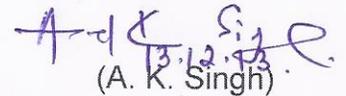
All Members of the Project Approval Board
of National Mission on Education through Information
and Communication Technology.

Subject: Minutes of 26th Meeting of the Project Approval Board (PAB) of National Mission on Education through Information and Communication Technology (NMEICT) held on 21st November, 2013.

Sir/Madam,

Enclosed please find Minutes of the 26th Meeting of the Project Approval Board of National Mission on Education through Information and Communication Technology (NMEICT) **held on Thursday, 21st November, 2013 at 11.00 am** at Shastri Bhawan, New Delhi under the Chairmanship of Secretary (HE), Ministry of Human Resource Development, Government of India, New Delhi for necessary action.

Yours faithfully,


(A. K. Singh)

Director (ICT) &
Nodal Officer (NMEICT)
Tel: 011-23384276

Encl: as above

Copy to:

1. PSO to Secretary (HE)
2. PS to JS (TEL)
3. PS to JS&FA
4. US (TEL)

MINUTES OF THE 26th MEETING OF PROJECT APPROVAL BOARD OF NATIONAL MISSION ON EDUCATION THROUGH INFORMATION AND COMMUNICATION TECHNOLOGY (NMEICT) HELD ON 21st NOVEMBER 2013 AT 11.00 A.M. IN CONFERENCE ROOM (FIRST FLOOR), SHASTRI BHAWAN, NEW DELHI

The 26th Meeting of the Empowered Committee of Experts (Project Approval Board) of National Mission on Education through Information and Communication Technology (NMEICT) was held on 21st November, 2013 at 11.00 a.m. in Conference Room, (First Floor), Shastri Bhawan, New Delhi under the Chairmanship of Secretary, Department of Higher Education, Ministry of HRD. The list of participants is at **Annexure**.

Joint Secretary (TEL) and Mission Director (NMEICT) & Member Secretary, PAB welcomed all the participants. Thereafter agenda items were discussed and following decisions were reached:

Item No.1

Confirmation of the Minutes of the 25th Meeting of Project Approval Board

Joint Secretary (TEL) and Mission Director (NMEICT) & Member Secretary, PAB, invited observations from the members on the “Minutes of the 25th Meeting of the PAB.” Since all the members agreed and no observations on the same were received, the “Minutes of the 25th Meeting of the Project Approval Board held on 6th November, 2012” were confirmed.

Item No.2

“Action Taken Report” on the Minutes of the 25th Meeting of PAB

Joint Secretary (TEL) and Mission Director (NMEICT) & Member Secretary reported to PAB that action has been taken and completed as per the PAB’s decision in respect of the following 2 items:

Sl. No.	Subject/Agenda item	Decision of PAB	Action Taken
1	Approval of Project related to e- content generation for 17 subjects in E&C by IIIT Hyderabad.	PAB approved the project with estimated amount of Rs 119 lakhs.	The first installment of Rs. 35.7 lakhs has been released to IIIT Hyderabad.
2	Approval of Project related to developing suitable pedagogical methods of IIT Kharagpur.	PAB approved the project with estimated budget of Rs 16 Crores.	The first installment of Rs. 4.63 Crores has been released to IIT Kharagpur.

Joint Secretary (TEL) and Mission Director (NMEICT) & Member Secretary, PAB further informed the members that action in respect of following 3 items is under progress and the outcome will be presented in the next PAB meeting:

S.No	Subject/Agenda item	Decision of PAB	Action Being Taken
1	Financial due diligence of "Talk to teachers" Project.	Create a model which is self sustaining. For this, a meeting with UGC, AICTE, NCTE and other partners to be conducted.	A Model will be worked out after conducting meeting with UGC, AICTE, NCTE and will be put in next PAB meeting.
2	Approval of Projects related to development of e-content related to geo informatics by IIT Mumbai.	PAB advised the along with the cost break up, project may be put for the examination in the next meeting.	Mission Secretariat will scrutinize the proposal and will put before the next PAB.
3	Approval of Project related to setting up of teaching ends for creating content for 50 DTH channels at the leading institution of the country.	i). PAB approved the project in principle, however observed that money may be released only after obtaining the NOC. ii). SPV may be formed with consultation with UGC and AICTE.	Actions are being taken to obtain NOC for Ministry of I&B and other related organization and for forming SPV. PAB will be apprised about the outcome in the next meeting.

Thereafter, the said "Action Taken Report" was noted by PAB.

Item No.3

Approval of New Proposals:

- 3.1 Project : Virtual Labs (Phase-II)**
PI : Ranjan Bose
Institute : IIT Delhi

JS(TEL) and Mission Director NMEICT apprised the members about this project, coordinated by IIT Delhi along with seven IITs and a few other educational institutions as collaborators. In the first phase of the project, 100 virtual labs have been created as against the target of 80 virtual labs. Towards outreach and dissemination, IIT Delhi has conducted workshops and created 65 nodal centers, which are located in various engineering college to ensure that the Virtual labs are being used by these engineering colleges. The PRSG has recommended the continuation of this project for which the Scale-up requires Phase II funds of Rs. 5623.44 lakhs with Maintenance and outreach as the major objectives.

There was extensive discussions on the project by members. Some of the observations and issues of concern voiced by PAB members are listed below:

1. PI should concentrate on creation of virtual labs as a replacement option for only high cost lab equipment, say over Rs. 50 lakhs or Rs. 10 lakhs. PI should analyse such data about phase I virtual labs as an input for further consideration.
2. Dissemination and ensuring full use of Virtual Labs is presently lacking.
3. Whether evaluation has been done by external agencies?
4. What is the roadmap for spreading and disseminating the use of Virtual Labs over time?
5. How many experiments actually got conducted?
6. What has been the effect of this Project on employability of engineering students? Has any study been done?
7. Exploring the leverage of private sector wide-spread dissemination of the project and user promotion. Present proposal for reaching out to just 236 colleges in 2 years is unacceptable in terms of reach desired.
8. Involving all TEQIP colleges straightaway in phase II to be incorporated.
9. Involving AICTE and UGC for making Virtual Labs as a part of the curriculum for all.

PI from IIT Delhi (Prof Ranjan Bose) responded partially to some of above observations as follows:

- i) Students are more excited about basic experiments rather than complex high cost equipment labs, because the sample results and reports on basic experiments are easier for them to comprehend.
- ii) Virtual Labs are of value when used outside normal college lab hours and on holidays. Only about 7-10% labs correspond to equipment over Rs 50 lakhs, but these are used least as per the feedback of over 1 lakh students.
- iii) 6 lakh feedback forms have been received by students.

After detailed deliberations on observations made by members and PI's response, PAB decided as follows:

1. **Continuation of the Virtual Labs project is agreed in principle. However a small group consisting of JS&FA,JS(TEL), and PI will examine the proposal further in detail.**
2. **Among other observations made by PAB, this group will examine deployment of a hub and spoke model and T2T mode - particularly for simpler experiments for much wider overreach. AICTE and UGC may be involved for making Virtual Labs as a part of the curriculum for all. Among the colleges targeted in phase II, all TEQIP colleges are to be included straightaway.**
3. **The recommendations of the Group may be put up in the next PAB meeting for consideration.**

- 3.2 Project : E-Yantra Robot Enhanced Teaching in Engineering Colleges - Phase-II.**
PI : Prof.Kavi Arya
Control No. : KR 13200 99887
Institute IIT, Bombay

Joint Secretary (TEL) and Mission Director NMEICT informed the members that the targets of Phase I of this project have been achieved. 16 labs were set up in Mumbai university colleges, as a part of the first phase.

Phase II of e-Yantra proposes to reach out to many more students, teachers, and colleges across the country to take the movement created in Phase I, of hands-on training and innovative thinking, to another level - putting our country on the world map of innovative education in embedded systems through project-based learning. PI from IIT Bombay (Dr Kavi Arya) informed that Phase II of the project aims to set up Robotics labs and train teachers in 500 colleges in 20-25 regions in 3 years.

While applauding the project conceptualization and approach, PAB members suggested that, out of 500 colleges targeted in Phase II, PI may first include all TEQIP colleges straightaway. The members also suggested that after Phase II, an exit option may be planned by PI for sustainability of the project at college/institution level after the NMEICT provided funds are over.

PAB approved the Phase-II of E-Yantra project with an estimated cost of Rs. 1709.60 Lakhs over 3 years.

- 3.3 Project : National Library and Information Services Infrastructure for Scholarly Content (N-LIST)**
PI : Dr. Jagdish Arora,
Institute : INFLIBNET, Ahmedabad

Joint Secretary (TEL) and Mission Director NMEICT informed the members that N-LIST is a flagship programme of the Mission. Launched in 2010, the project provides access to more than 5,000 electronic journals and 97,000 electronic books to over 3,200 colleges through authentication mechanism set-up in the INFLIBNET Centre. Besides, the project also provides for access to Web of Science to 100 universities and 3,500 electronic journals to 55 CTIs under the cross subscription component of the project. Mission Director, however, informed the members that Rs. 100 crores allocated to the project during XI Plan Period has already been fully exhausted and funds could not be allocated to the project for renewal of subscription to e-resources for the year 2013.

As such, in the present proposal, the PI has proposed a total budget requirement of Rs. 9102.40 lakhs for continuing the service during the calendar years 2013 and 2014. PAB Members discussed on whether to get this funding by making internal budget adjustments within MHRD as an alternate source of funding or take it to the Cabinet for approval of additional funds during XIIth Plan. It was, however, felt that the latter route will be very time consuming, and so an alternate mechanism for continuation of funding should be tapped for this type on ongoing activity.

On this subject, Adviser (Education), Planning Commission pointed out that “Expert Committee Constituted by the MHRD to Survey the Current Scenario of Library Consortia in India and to Explore the Possibilities of Joint Negotiations and Collaborative Services”, has recommended that as a first step towards consolidation of consortia, three consortia, namely INDEST-AICT Consortium, UGC-INFONET Digital Consortium and N-LIST that are funded by the Ministry of HRD are brought under one umbrella through joint negotiation and ministry-level advisory committee. The Committee has also recommended that the N-LIST -- currently running as a project -- should be recognized as a regular scheme of the MHRD and cross-subscription component of e-resources may be merged with the respective consortia, i.e. UGC-Infonet Digital Library Consortium (for universities) and INDEST-AICTE Consortium (for CTIs).

After detailed discussions and deliberations, it was agreed that the benefit of access to e-resources is most critical for teaching and research. Members noted that INDEST Consortium has not been able to cater to the e-resource requirements of new IITs and IISERs because of paucity of funds. As such, it was agreed that Joint Secretary (TEL) will take steps that are necessary for ensuring continuation of all N-LIST components in line with the recommendations made by the Expert Committee on Consortium constituted by the MHRD.

3.4 Project : NMEICT Dissemination & Publicity Campaign
PI : Mr. N. V. Reddy
Institute : DAVP

Joint Secretary (TEL) and Mission Director NMEICT apprised PAB members about the need for a systematic publicity and awareness campaign to be launched by the Mission for making its outcomes reach the far nook and corners of the country. For this, DAVP was approached to propose a media plan for popularizing the NMEICT modules available among the primary beneficiaries who are the students of higher educational institutions and their teachers. PI from DAVP (Mr. NV Reddy) then explained the dissemination and publicity campaign proposed by DAVP. To start with, DAVP will engage research

agencies for conducting a survey to assess the level of information available with the students about the resources available in the mission, and carry on setting up hoardings (approx. 20'x10' in dimension) for 12 months in 527 connected universities (NMEICT and NKN connected universities) in 2013-14 and 2014-15. In addition, DAVP will also use the popular websites for popularizing the mission as proposed by them.

PAB members unanimously agreed for the urgent need for NMEICT Dissemination & Publicity Campaign to be launched by the Mission. There was a suggestion for using social media too for publicity. However Joint Secretary (TEL) & Mission Director opined that a call can be taken on this after the survey exercise is completed by DAVP. It was also suggested that for deciding the contents on display hoardings, JS(TEL) will set-up a committee to recommend the same.

After deliberations, PAB approved sanction of Rs.1324.8 lakhs to DAVP for 3 activities during remaining part of 2013-14 and 2014-15 with break-up as follows:

- | | |
|---|-----------------|
| i). For the assessment survey | Rs. 30.0 lakh |
| ii). For setting up hoardings at 527 Universities for 12 months | Rs. 1264.8 lakh |
| iii). For using the website | Rs. 30.0 lakh |

- 3.5 Project : NMEICT Dissemination and Awareness Activity through Deployment of Mobile e-learning Terminals (MeLT)-Phase: II.**
PI : Dr. Vinod Kumar
Institute : IIT, Roorkee

JS(TEL) and Mission Director NMEICT explained to PAB that the present proposal from IIT Roorkee relates to Deployment of Mobile e-Learning Terminals (MeLT) for Dissemination and Awareness Activity as Phase II of their earlier completed project. Phase I of the Project was completed by IIT Roorkee along with associated network of Institutes, at a cost of Rs. 3 Crores with the objective of making available to the students in rural areas e-lectures and knowledge e-contents of their interest free-of-cost using Mobile e-Learning Terminals in 12 Vans/Buses.

PAB members discussed the pros and cons of continuation of the MeLT project to phase II. It was felt by some members that though the phase I of the project was well conceived at the time of its initiation, in the changed circumstances and rapid technological developments, putting more money into the project may not be justified. However final decision on the proposal may be based on recommendations of a committee with following members:

- i). Joint Secretary (TEL) & Mission Director (NMEICT)
- ii). Representative of Technical Education Bureau
- iii). Representative of Higher Education Bureau
- iv). Representative of Central University Bureau

The Committee will look into all aspects including assessment and usability of the present state of equipment and vans, further investment needed vis-à-vis the proposed deployment and the exploring distribution of existing equipment to interested institutions including new IITs. The recommendations of the Committee may be put up before the next PAB meeting for final decision.

3.6 Project : Report on Aakash
PI : Prof. D. B. Pathak
Institute : IIT, Bombay

PI from IIT Bombay Dr Phatak presented the updated report on Aakash, which was discussed and appreciated. Adviser (Higher Education) Planning Commission suggested that to further enhance the awareness and usage of Aakash tablets, extensive consolidation of Aakash tutorials through an exclusive Portal for community of Aakash users should be done. PI accepted the suggestion and promised that in next PAB meeting, this Portal will be showcased.

PI also suggested that to popularize and seek feedback on the project, all PAB members and NMEICT Consultants and staff may be given an Aakash tablet by IIT Bombay, for which JS(TEL) was requested to send the list of names to him.

The suggestion was accepted by PAB while accepting PI's report on Aakash.

Item No. 4

Release of Balance installments

PAB approved release of balance pending payments as follows:

Ref. No. to PAB Agenda item	Project	Amount approved for release (Rs. lakhs)
4.1	National Programme on Technology Enhanced Learning (NPTEL) Co-PI : Prof. Mangal Sunder, Institute Institute : IIT Madras	365
4.2	Virtual Lab (Remote Triggered Labs). Co-PI : Prof. Rajan Bose. Institute : IIT Delhi.	580
4.3	E-Yantra: Robot Enhanced Teaching of subjects in Engineering Colleges. PI : Prof. Kavi Arya Institute : IIT Bombay.	20.61
4.4	FOSSEE: Assimilation of Open Source Software in Science and Engineering Education. PI : Prof. Prabhu Ramachandran Institute : IIT Bombay	63.50
4.5	e-kalpa: Creating Digital Environment for Design in India. PI : Prof. Ravi Poovaiah Institute : IIT Bombay.	248
4.6	E-content generation and e-skilled test in specialized area of Information Technology. PI : Sri V. K. Sharma Institute : C-DAC, NOIDA.	18
4.7	Benchmarking of ICT modules in Physics & Chemistry. PI : Prof. R. K. Thareja, Prof. G Ramanathan. Institute : IIT Kanpur	101

Item No.5

Budget Estimate for TSG-EdCIL & Mission Secretariat of NMEICT for the Financial Year 2013-14

On the request of JS&FA, PAB resolved that issue may be examined by IFD on file. Accordingly, TEL Bureau will circulate file to IFD and take necessary approval.

Item No. 6

Amendments to the Budget Estimate of Mission Secretariat of NMEICT for the financial year 2012-13 of NMEICT.

The PAB noted the amendment in the overall value of Budget Estimates for the TSG/Mission Secretariat for financial year 2012-13 as **Rs 3.91 Crore**, which was typed as **Rs 3.19 Crore**, erroneously, in the Minutes of 24th meeting of Project Approval Board (PAB) held on 04.10.2012 and also noted the proposal to upload the said amendments to the Budget Estimate in the form of Corrigendum on Sakshat Portal along with the other Minutes of Project Approval Board (PAB).

Item No.7

Other items permitted by Chair

Apart from the specific agenda items listed, PAB Chairman and members also deliberated upon some common generic issues pertaining to NMEICT project as a whole, and noted the following for further action by the Mission:

1. Chairmen of AICTE and UGC may be requested to issue an "Advisory" to all engineering colleges under their control to adopt Blending Learning mode (NMEICT e-Content + conventional content existing) to be used by their faculty. Simultaneously, discussions may be held by Mission Director with concerned stakeholders for exploring compulsory usage of NMEICT e-Contents.
2. An integrated Portal for all NMEICT content may be created for students, as presently the Sakshat Portal contains a mix of administrative information as well as e-Content, and it's difficult to navigate the Sakshat Portal by students to access e-Content and Virtual Labs, etc. JS(TEL) informed that a proposal for an Integrated e-Content Portal for NMEICT recently submitted by INFLIBNET will be presented by the PI in the next meeting of the Standing Committee.
3. There is a need for a comprehensive review and updation of NPTEL content which was started 10 years ago, even before NMEICT project commenced.

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

CORRIGENDUM

To 24th Minutes of the Project Approval Board of NMEICT held on 04.10.2012.

Item No.	Typed As	To be Read As
11.	<p>Budget Estimate for 2012-13 TSG/Mission Secretariat of NMEICT</p> <p>The PAB members were informed that the Budget proposed on this for the year 2012-13 for the Mission Secretariat is well within the overall ceiling of 1% of the total outlay fixed for the project. It was also informed that funds on this are released on EdCIL on actual expenditure basis.</p> <p>The PAB approved overall budget expenditure of up to ₹ 3.19 crore for the Mission Secretariat for the year 2012-13 as per budget estimates provided.</p>	<p>Budget Estimate for 2012-13 TSG/Mission Secretariat of NMEICT</p> <p>The PAB members were informed that the Budget proposed on this for the year 2012-13 for the Mission Secretariat is well within the overall ceiling of 1% of the total outlay fixed for the project. It was also informed that funds on this are released on EdCIL on actual expenditure basis.</p> <p>The PAB approved overall budget expenditure of up to ₹ 3.91 crore for the Mission Secretariat for the year 2012-13 as per budget estimates provided.</p>

Attendance of “Project Approval Board (PAB)” held on 21st November, 2013 at 11.00 a.m. Under National Mission on Education through Information & Communication Technology (NMEICT), Ministry of Human Resource Development at Conference Room No.112-C Wing (First Floor), Ministry of Human Resource Development, Shastri Bhawan, New Delhi.

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