

File No.NMEICT (MS)/PAB/21
Government of India
Ministry of HRD
Department of Higher Education

1st September, 2011

To

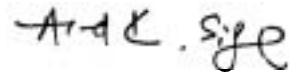
All Members of Empowered Committee of Experts
(Project Approval Board) of National Mission on
Education through Information and Communication
Technology (As per list enclosed)

Sub: Minutes of the 21st Meeting of the Empowered Committee of Experts (Project
Approval Board) of National Mission on Education through Information and
Communication Technology (NMEICT) held on 11th August, 2011

Sir/Madam,

Enclosed please find Minutes of the 21st Meeting of the Empowered Committee of
Experts (Project Approval Board) of National Mission on Education through Information and
Communication Technology (NMEICT) held on 11th August, 2011 under the
Chairpersonship of Secretary, Department of Higher Education, Ministry of Human
Resource Development, Shastri Bhavan, New Delhi for necessary action.

Yours faithfully,



(A.K. Singh)
Director (ICT)
Tel: 011-23384276

Copy to:

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

**Project Approval Board of National Mission on Education through Information and
Communication Technology (NMEICT)**

List of Members

S.No.	Name, Designation and Address
1.	Secretary, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi <p align="right">Chairperson</p>
2.	JS & Financial Adviser, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi
3.	Secretary, Planning Commission, Yojana Bhawan, New Delhi-110001
4.	Secretary, Department of Telecommunications, Sanchar Bhawan, New Delhi-110001
5.	Secretary, Department of Information Technology, Ministry of Communication and Information Technology, CGO Complex, Lodhi Road, New Delhi-110001
6.	Secretary, Department of Space, Lok Nayak Bhawan New Delhi-110001
7.	Dr. A.Mukhopadhyay Adviser/Scientist 'G', SERC Division, M/o Science & Technology, D/o Science & Technology, Technology Bhawan, New Delhi-110016
8.	Director, Indian Institute of Technology, Powai, Mumbai - 400076
9.	Director, Indian Institute of Technology, Roorkee-247667 Uttarakhand
10.	Director, Indian Institute of Technology, North Guwahati Guwahati-781039 Assam

S.No.	Name, Designation and Address
11.	Director, Indian Institute of Technology, P.O. Kharagpur -721302
12.	Director, Indian Institute of Technology, P.O. IIT Chennai Chennai -600036
13.	Director, Indian Institute of Technology, Kanpur-208016 UP
14.	Director, Indian Institute of Science, Bangalore-560012 Karnataka
15.	Director, Indian Institute of Science, Hauz Khas New Delhi-110016
16.	Prof. V.N.Rajashekhar Pillai Vice-Chancellor, Indira Gandhi National Open University (IGNOU), Maidan Garhi, New Delhi
17.	Vice-Chancellor, North Eastern Hill University (NEHU), Shillong
18.	Vice-Chancellor, Visvesvarya Technological University, Belgaum- 590018
19.	Shri R.P. Agrawal 31 Greenwood Society Phase-II Sector -Omega I Pocket P-2 Greater Noida-201308
20.	Prof. U.B.Desai IIT Hyderabad Ordnance Factory Estate, Yeddurnailararn- 502205 Hyderabad' Andhra Pradesh
21.	Prof. M.K.Surappa IIT Ropar Nangal Road, Rupnagar (Ropar) Punjab 140001
22.	Prof. Sudhir K. Jain IIT Gandhinagar Room: 112A Western Laboratory Extension Chandkheda, Gandhinagar -382424 Gujarat

S.No.	Name, Designation and Address
23.	<p>Prof.Prem K. Kalra Director, IIT Rajasthan Camp off: MBM engineering college. Residency Road, Jodhpur 342011</p>
24.	<p>Prof. Madhusudan Chakraborty Director, IIT Bhubaneswar Office of the Director Indian Institute of Technology Bhubaneswar Samantapuri (Rearside of Hotel Swosti Plaza) Nandan Kanan Road Bhubaneswar-751 013</p>
25.	<p>Prof. Anil.K.Bhowmik Indian Institute of Technology Patna Navin Government Polytechnic Campus Patliputra Colony Patna 800 013</p>
26.	<p>Shri Pramod Bhasin Chairman, National Association of Software and Services Companies (NASSCOM), International Youth Centre Teen Murti Marg Chanakyapuri New Delhi 110 021</p>
27.	<p>Dr. Ajay Khare Director School of Planning & Architecture, Transit Campus: Sports Complex, MANIT, Bhopal-462051</p>
28.	<p>Prof. S.G.Deshmukh Director IIIT Gwalior Morena Link Road, Gwalior 474 010</p>
29.	<p>Dr. M.D.Tiwari Director IIIT Allahabad Deoghat, Jhalwa Allahabad</p>

MINUTES OF 21st MEETING OF PROJECT APPROVAL BOARD OF NATIONAL MISSION ON EDUCATION THROUGH INFORMATION AND COMMUNICATION TECHNOLOGY HELD ON 11th AUGUST, 2011 AT 4.00 P.M. IN CONFERENCE ROOM NO.112-C-WING, SHASTRI BHAWAN, NEW DELHI

The 21st Meeting of the Empowered Committee of Experts (Project Approval Board) (PAB) of National Mission on Education through Information & Communication Technology was held on 11th August, 2011 at 4.00 p.m. in Conference Room No.112-C-Wing, Shastri Bhawan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education, MHRD.

The list of participants is at **Annexure**.

Mrs.Vibha Puri Das, Secretary, Department of Higher Education welcomed all the participants. Thereafter, the agenda items were discussed and the following decisions were taken:

Item No.1:

Chairperson requested all the members to give their comments on the Minutes of the 20th PAB Meeting. No comments were received. Thereafter; the Minutes of the 20th Meeting of the Project Approval Board held on 2nd May, 2011 were confirmed.

Item No.2

The Action Taken Report on the Minutes of the 20th Meeting of the Project Approval Board held on 2nd May, 2011 was noted by the PAB.

Item No.3

Approval of New Projects recommended by Standing Committee

The following projects were discussed by **PAB** and decisions taken as mentioned against each:

- 3.1. E-content generation for adult and non-formal education programme**
SUBMITTED BY :- R. Pandya, Faculty of family and community sciences, MS University, Baroda
CONTROL NUMBER :- DE-2107101123

PAB considered this proposal and opined that this project should be funded by the Adult Education Bureau of MHRD. PAB directed to check with that Bureau whether it is possible for that Bureau to fund this project. PAB further decided that this project will be funded through NMEICT if Adult Education Bureau is not in a position to fund this project. In that case, funds to the tune of Rs.14,08,800/- may be released from NMEICT.

- 3.2. Development of e-content for undergraduate students in science in the area of chemical process industries, Dr. Nirmal Kumar Kantibhai **Patel**, NV **Patel** College of Pure and Applied Sciences.
DE-73097071333

PAB approved the project. PAB also decided to release Rs.7.00 Lakhs to IIT, Madras, which is executing NPTEL project. PAB further directed that PI may be asked to join NPTEL.

- 3.3. Development of e-courses in **B.com, M.com, MBA**
Prof. H. Venkateshwarlu Haripuram, Principal, University College of Commerce & Business Management, Osmania University, Hyderabad
Control no.: Pe-14720910459

Deferred for the next Meeting.

- 3.4. e-content for all media courses
PI: Dr. N.S. **AshoK** Kumar, Professor & Coordinator, Dept of Electronic **Media**
Bangalore University, Palace Road, Bangalore

Control number: De-03081011776

Deferred for the next Meeting.

Item No.4

Proposal for Production of Courseware E-Content for Postgraduate Subjects, UGC, New Delhi (Control Number: **UE-30041111980**)

The proposal was discussed in detail by the PAB. JS & FA said that commitment from UGC may be obtained that it will execute the project and deliver the output in a specific time frame, e.g. by a specific month, with identifiable deliverables to be achieved. This was accepted by the PAB. Subject to this, after deliberations, PAB approved the proposal as recommended by the Standing Committee. PAB, therefore, approved Rs.84.00 crore, to UGC. PAB also decided that Chairman, UGC will be the Chairman of the Programme Implementation Committee. PAB further decided that due diligence by Standing Committee will continue.

Item No.5

Virtual Labs Project (Remote Triggered Labs)

Prof. Ranjan Bose of IIT Delhi explained the details about the project. He informed that due diligence has already been done by the experts and the Standing Committee. He requested for separate amount for continuation of labs and extension of pilot project. PAB advised that these labs should be cost effective and only costly experiments can be made virtual and inexpensive experiments may not be covered. PAB suggested that these facilities can also be provided to the students who cannot afford these types of high-cost labs. It was also suggested that students and teachers should be motivated to use these virtual labs and a circular to all the universities/colleges/institutions by the statutory bodies like AICTE/UGC may be issued for

making use of these labs. Chairperson stressed that the fundamental purpose of the Mission should be fulfilled. PAB considered the proposal as recommended by the Standing Committee and approved Rs.2268.23 Lakhs to IIT, Delhi. PAB also decided that Mission Director (NMEICT) may request AICTE/UGC to issue a circular to the universities/colleges/institutions, requesting them to encourage and motivate students to make use of such virtual labs and consider giving some weightage in academic process. Prof S V Raghavan suggested inclusion of Doctoral Courses as well while writing to AICTE/UGC.

Item No.6

Extension of pilot project, namely, 'text transcriptions of technical video index, metadata and online quizzes" sanctioned to Indian Institute of Technology, Madras under National Mission on Education through Information and Communication Technology Scheme.

PAB approved extension of pilot project, 'text transcriptions of technical video index, metadata and online quizzes" upto 31.3.2012 to Indian Institute of Technology, Madras. It was also suggested that text may be shown as tickers in the videos. Further PAB decided that the task of giving extension of time to projects sanctioned under NMEICT may be entrusted to the Standing Committee which may decide such matters on case-to-case basis.

Item No.7

Budget Estimates for 2011-12 for **TSG/Mission** Secretariat of NMEICT

PAB approved budget estimate of Rs.435.63 lakhs for the Mission Secretariat for the year 2011-12.

Item No.8

Requirement of Furniture for Mission Secretariat of NMEICT

PAB approved an amount of Rs.10-12 lakhs for purchase of office furniture for Mission Secretariat within the overall budget. PAB also thanked the VC, IGNOU for providing office space to the Mission.

Item **No.9**

Development of Vocational Educational Modules and use of **Haptic** Devices – Virtual Laboratories and **VLSI** and Embedded Systems, Mizoram University

PAB deferred this item for the next meeting

Item **No.10**

Management Information System (MIS) of NMEICT

A presentation was made by Prof. Uma Kanjilal of IGNOU highlighting various aspects of MIS being developed on the sakshat portal which include tracking of projects, regular monitoring and creation of other relevant database. PAB suggested that inclusion of aspects such as delivery of e-contents to learners may be made part of MIS with in-built feedback mechanism. It was decided that a detailed presentation in this regard may be made to PAB separately. Mission Secretariat will organize this.

Item **No.11**

Strengthening of the Standing Committee of NMEICT

The item was discussed in detail. PAB suggested that the Standing Committee while recommending any project must see that inputs from a minimum of 3 subject experts should be taken and there should be a minimum score of 4 on a scale of 5. It was decided by PAB that minimum of seven Standing Committee Members who attended a minimum of 30% of last 12 months' meetings should be present, deliberate, recommend and sign the minutes. However, attendance of members/experts through video-conferencing may also be counted. It was further decided that the existing method of evaluation of the project on the basis of the ten-point Appraisal be continued.

Item **No.12**

Extension of pilot project, namely, "Establishing e-training environment for training technical teachers and students (creation of four courses)" sanctioned to National Institute of Technical Teachers Training and Research (NITTTR), Chennai.

PAB decided that Standing Committee may decide extension up to 31.12.2011 to National Institute of Technical Teachers Training and Research (NITTTR), Chennai for executing the pilot project namely, "Establishing e-training environment for training technical teachers and students (creation of four courses)". PAB, therefore, decided to refer this matter to Standing Committee.

Additional Agenda

Item **No.1**

Appointment of Consultants under NMEICT

The item was discussed. After discussion, PAB noted the following:

1. **Mr.Pradeep Kaul** who was recommended by Selection Committee for deputation and has retired on 30th April, 2011 can be offered contractual appointment on a remuneration of Rs.75,000/- p.m. subject to the remuneration and pension plus DA admissible on pension not exceeding his last pay drawn plus DA admissible on last pay drawn.

- (b) Similarly, as recommended by the Selection Committee contractual appointment may be offered to Prof.M.U. Deshpande on a remuneration of Rs.75,000/- p.m. subject to the remuneration and pension plus DA admissible on pension not exceeding his last pay drawn plus DA admissible on last pay drawn.

Item No.2

Approval of projects recommended by Standing Committee

- 2.1 E-COURSE DEVELOPMENT, Project investigator: Dr **N.BASKARAN**, DEPARTMENT OF PHILOSOPHY, NATIONAL COLLEGE, TIRUCHIRAPALLI.
Control Number: **Ne04011010497**

Deferred for the next meeting.

- 2.2. Designing, developing and Delivery of subject Hospital Support Services e-content for students of Hospital and Health care Management by Dr. L. Kalyan Viswanath Reddy, Hemchandracharya North Gujarat University, Gujarat
Control No: DE-15011111724

Deferred for the next meeting.

- 2.3. e-Content **Generation** For specialized Training Programs Of Bio-Medical and Electronics Product Design domain, PI: Chetan Manchanda, CDAC, Mohali
Control Number:-CE-10011111669

Deferred for the next meeting.

- 2.4. Development of E-content for academic courses and professionals in the areas of the IT enabled Management, **Dr.Deepali** Singh, De-0403100569, ABV-Indian Institute of Technology and Management, Gwalior

Deferred for the next meeting.

- 2.5. e-Content Development for the course "Extension Education, Dr. Avani Maniar, Department of Extension and Communication, M.S University, Vadodara.
Control No. AE-11071011058

Deferred for the next meeting.

- 2.6. PI: Vishal Sahni, Institute: DEI, Partners: IITD, **IITK**, Title: Quantum Nano Systems, CONTROL NUMBER: **VS24220099870**

A presentation was made by Dr.Vishal Sahni with regard to his project before PAB. After discussion and taking into account the recommendations of the Standing Committee, PAB approved release of the next installment of 30% of Rs.5 crore, i.e., Rs.1.5 crore to Dayal Bagh Educational Institute, Agra for the main project. It was also suggested by PAB that wherever costly equipments are being purchased for any project, market survey and proper purchase procedure should be followed. It should also be seen that the same can be used by other PIs and become property of virtual labs so that there should not be any duplication.

**2.7. e-Content Development, PI: Tilak R. KEM, CEC
CONTROL NUMBER: DE-19111011541**

The proposal of CEC was discussed in the PAB. PAB approved the balance amount of Rs. 6.1 crores to CEC as recommended by the Standing Committee.

**2.8. Technology for Analysis of Rare Knowledge Systems for Harmonious Youth Advancement (TARKSHYA), PI: Dr. Rarnanujan, CDAC, Bangalore
CONTROL NIJMBER: Pe-24090910307**

It was informed to PAB that this project was earlier presented in the PAB and PAB had initially approved the pilot component of Rs. 50 lakhs. The pilot project is now completed with favourable inputs from the referees.

Dr. Rarnanujan, Director, CDAC, Bangalore was requested to give details of the project and the same were given by him. PAB wanted to know as to how many students have been benefited from the programme. It was informed by Dr. Rarnanujan that about 1000-2000 students are being benefitted. Keeping in view the cost:learner ratio, PAB advised Dr. Rarnanujan to join hands with UGC who are going to develop all e-contents for PG level courses.

**2.9. S&T inputs from Sanskrit for modern times, PI: Dr. Rarnanujan, Institute: CDAC, Bangalore
CONTROL NIJMBER: De-02031010560**

Dr. Rarnanujan presented his pilot project proposal for Rs. 25 lakhs for a project that gives S&T inputs from Sanskrit for modern times. PAB wanted the presenter to explore whether this would cover content generation for any course being offered by any university and if so, then come back.

2.10. NPTEL, PI: Prof. M. S. Ananth, IIT Madras

Prof.M.S.Ananth, Ex-Director, IIT Madras explained the details and the current status of NPTEL. It was suggested by PAB that a proper Action Plan may be prepared for more mileage to be derived from NPTEL. It was also suggested that AICTE be requested to issue a circular mentioning that the NPTEL material is available for the learners and students/learners should be encouraged to use it. After detailed discussions, PAB approved release of the remaining amount, of Rs. 40 crore to IIT Madras for NPTEL Programme under NMEICT Scheme, as recommended by the Standing Committee.

**2.11. Developing E-Content in Shastri (Hons.) & Acharya courses, PI: Prof. Rarnesh Panda, BHIJIT,
Control Number: RE-28111011549**

The Pilot project proposal of Prof. Rarnesh Panda for the development of 5 Sanskrit courses was discussed. PAB advised that this project may be taken up by CEC-UGC who are developing other UG courses and Prof. Rarnesh Panda may be advised to work with CEC.

suggested participation of private sector in this process, as far as possible. After detailed discussion, PAB decided that the Committee should come out with a clear cut, comprehensive and concrete recommendations as per Terms of Reference of the Committee set up for the purpose. While recommending the proposal, aspects such as data safety, storage, cyber security, etc. issues also need to be taken care of.

Item No.7

Presentation by BSNL

A presentation was made by Mr.Anil Jain of BSNL on the progress made with regard to providing connectivity to universities and colleges under NMEICT.

It was informed by Mr.Jain that 377 universities and 12188 colleges have been connected. It was also informed by him that there are about 6500 colleges in the country where even no computer is available. In the absence of any system, connectivity, if provided to colleges, cannot be tested. He has requested that PAB may consider providing LCADs, being developed/procured under NMEICT, to these colleges where computers are not available. PAB noted the status of Connectivity to Universities/Colleges.

Table Agenda

Item No.1

Approval for Sitting Fee to members of Evaluation Committee

PAB was informed that recently an Evaluation Committee has been constituted by MHRD to rigorously conduct evaluation of the NMEICT Scheme. As per the present norms, a sitting fee of Rs.1,000/- is being paid to non-official members of PAB and Rs.2,000/- for subject experts evaluating the DPRs. The issue of sitting fee to members of the Evaluation Committee was discussed. The Chairperson suggested that the matter may be decided internally with Integrated Finance Division of MHRD and may be put up to PAB for information/ratification later.

Other Issues :

PAB took the following decisions:

- (i) Costly equipment purchased by the Institutions out of funds released under NMEICT may be used for Virtual Labs after completion of projects.
- (ii) While examining proposals, Standing Committee will also look into the procedure to be adopted for purchase of costly equipment by the institutions concerned and also make some comparison of cost of equipment with available equipments in some other places. This will be incorporated in Standing Committee's recommendation to PAB.

Item No.3

Inclusion of private colleges under the N-LIST programme

The item was discussed. After discussion, PAB approved that the N-list programme be allowed to enroll private colleges at par with Government colleges. It was suggested by PAB that a circular to other colleges who have not so far registered with N-LIST programme may be sent on monthly basis by INFLIBNET.

Item No.4

Allocation of funds to States for NMEICT Awareness related issues

The item was discussed. It was informed to PAB that during the last zone-wise meeting of Principal Secretaries/Secretaries of Higher Education & Technical Education of States/Union Territories held in MHRD, it was suggested that to propagate the objectives of NMEICT and create awareness among the different institutes/universities, States/Union Territories may be allocated some funds.

After discussion, PAB approved funding of Rs.10 lakhs for bigger States and Rs.5 lakhs for smaller States & Union Territories respectively, for this purpose based on their requirement. The funds will be transferred through Mission Secretariat.

Item No.5

Approval for extension of projects under NMEICT

The item was discussed. After discussion PAB decided that extension of all projects may be decided by the Standing Committee based on the merits of each case. PAB, therefore, directed to refer the matter to Standing Committee.

Item No.6

Presentation on Communication and Bulk Storage Servers

It was informed that PAB in its 17th meeting held on 26th November, 2010 had constituted a Committee on "Communication and Bulk-Storage Servers at 100 premier institutions" under NMEICT Scheme.

A presentation on the progress made in this regard was made by Mr. R S Mani, NIC, New Delhi and Dr.Huzoor Sharan of IIT Delhi. Prof. Raghavan also briefed the PAB about the progress made in this regard in various meetings of the Committee.

The item was discussed in detail. It was indicated by the members of the Committee that an amount of Rs.20 crores for setting up a small Research & Development facility and approx. Rs.60 crores to NIC for setting up national data centres is required. PAB suggested that it may be seen if some other funding route for R&D facility may be explored. Director, IIT, Hyderabad

- (iii) Standing Committee will assess and make suggestions to PAB in the next meeting as to what is the material in the form of e-contents, which is ready and can be delivered to the learners.

There being no other item, the meeting ended with a Vote of Thanks to the Chair

Attendance of the 21st Meeting of the Project Approval Board (PAB) of the National Mission on Education through Information & Communication Technology (NMEICT) held on 11th August, 2011 at 4.00 p.m. in Conference Room No.112-C Wing, Shastri Bhawan, New Delhi

S.No.	Name, Designation and Address	Phone No., Fax and Email
1	Ms. Vibha Puri Das Secretary (HE) MHRD, Shastri Bhawan, New Delhi	Chairperson
2	Dr S.V. Raghavan, Scientific Secretary to Principal Scientific Advisor, Govt. of India Vigyan Bhawan, New Delhi	
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5	Shri R.P Agrawal Chairman BOG IIT, Delhi 31, Greenwoods Society Phase 2, Sector Omega 1 Pocket P2 Greater Noida-201308	9910823311 rpal949@gmail.com
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9	Shri Ajay Khare Director School of Planning & Architecture Bhopal	director@spabhopal.ac.in 0755-2670910 09425019780
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22	Dr. P. Ramanujan Director C-DAC Bangalore	rama@cdac.in 09449088616

23	Shri Jaison A. Manjaly Assistant Professor IIT, Gandhinagar	09227508985
24	Dr. Rarnesh Chandra Panda Dean, Faculty of Sanskrit Learning and Theology Professor & Head Department of Vyakarana (Sanskrit Grammar) Banaras Hindu University Varanasi-221005	91-9415992108 rcpanda@bhu.ac.in
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