

File No.NMEICT (MS)/PAB/1

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

National Mission on Education through Information & Communication
Technology (NMEICT), New Delhi

(Mission Secretariat)

New Delhi, the 12th November, 2009

Sub: Minutes of the Tenth Meeting of the Empowered Committee of Experts (Project Approval Board) of the National Mission on Education through Information & Communication Technology (NMEICT) held on 29th October, 2009

A copy of the Minutes of the Tenth Meeting of the Empowered Committee of Experts (Project Approval Board) of the National Mission on Education through Information & Communication Technology (NMEICT) held on 29th October, 2009 at 3.30 p.m. in Conference Room No.112-C Wing, Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education is sent herewith for information and necessary action.



(Harvinder Singh)
Deputy Secretary (PAE) &
Nodal Officer (NMEICT)
Tele: 011-23382604

Encl: As above.

All Members of Empowered Committee of Experts (Project Approval Board) of NMEICT
(As per list enclosed)

**Copy, along with a copy of Minutes, to: Sr.PPS to Secretary (HE) & Chairperson, PAB
and JS(DL)/Member Secretary, PAB – for information.**

Minutes of the Tenth Meeting of the Empowered Committee of Experts (Project Approval Board) of the National Mission on Education through Information & Communication Technology (ICT) held on 29th October, 2009 at 3.30 p.m. in Conference Room No.112-C Wing, Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education.

The Tenth Meeting of the Empowered Committee of Experts (Project Approval Board) (PAB) of National Mission on Education through Information & Communication Technology was held on 29th October, 2009 at 3.30 p.m. at Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education.

The list of Committee Members who participated in the meeting is at Annexure-I.

Shri R.P. Agrawal, Secretary, Department of Higher Education welcomed all the Members. Thereafter, agenda items were discussed and the following decisions were taken:

Item No. 1:

Mission Director informed that the project "Development of Vocational Education Module and use of Haptic devices: Virtual Laboratories for VLSI and Embedded Systems", submitted by Mizoram University, Mizoram stood referred to IIT, Delhi for review of the project to consider making it part of Virtual Lab Project and the minutes in this regard stand amended accordingly.

Thereafter, Chairperson requested all the committee Members to give their comments, if any, on the Minutes of the 9th PAB Meeting since the same were circulated on 28th October, 2009. Since there were no comments, the Minutes of the 9th PAB Meeting held on 3rd September, 2009 & 11th September, 2009, were then confirmed.

Item No.2

Shri N.K.Sinha, JS(DL) and Member Secretary, NMEICT informed that the necessity of broad-basing of the existing Committee by constituting additional Committee/Sub-Committee for effective Implementation-cum-Monitoring of the projects. Accordingly, Project Approval Board agreed for the said proposal and approved inclusion of following in the Implementation-cum-Monitoring Committee and then Sub-Committee(s) keeping in view all the States/UTs under consideration:

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1. Principal Secretaries/Secretaries of Higher Education and Technical Education of all States/UTs;
2. General Managers (BB) of all State Circles of BSNL;
3. Directors/or their representatives/of all the Indian Institutes of Technology (IITs) and National Institutes of Technology (NITs).
4. 2 or 3 Vice-Chancellors or their representatives of Universities (on rotational basis) in each of the Sub-Committees; and
5. 2 or 3 Principals or their representatives of Colleges (on rotational basis) in each of the Sub-Committees.

The Chairmen of the Sub-committees will be taken on the Implementation-cum-Monitoring Committee for proper coordination.

PAB further discussed on the following issues:

1. The BSNL has presently completed connectivity only upto 25% of the colleges and Chairperson, PAB suggested that the work on connectivity front is moving in a slow pace and advised the Department of Telecommunication to review internally for effective and early connectivity to all the colleges.
2. The Vice-Chancellor, NEHU, Shillong requested that North-Eastern Region is facing connectivity problem and requested all cooperation from the NMEICT for early connectivity of 1Gbps. Mr.N.K.Sinha informed that already the optic-fiber has been brought in and only connectivity is pending for which it was assured that all efforts shall be put in for implementation of the same through BSNL shortly.

Item No.3

The recommendations of the 6 projects made during the Standing Committee Meeting dated 5.9.2009 were reviewed, discussed and considered by the Project Approval Board (PAB). Based on the recommendations of the Standing Committee and the consensus of members present in the PAB, the following proposals were deliberated and decisions taken, as mentioned against each:

1. **Learning-by-Doing (LBD)-based Course Content Development by Dr. Kannan Srinathan, International Institute of Information Technology, Hyderabad.**

Decision: The project is sanctioned for the pilot for Rs.30 lakhs for Development of content for 3 courses as recommended by the Standing Committee.

2. **Development of modular robotic systems for education by Dr. Ashish Dutta, IIT Kanpur.**

Decision: The PAB approved the project for pilot for six months at a project cost of Rs.16.4 lakhs.

The PAB also suggested that the PI should jointly collaborate with IITs at the pilot stage for effective development of the project.

3. **Development of e-content on ancient Indian metallurgy and modern process metallurgy, by Prof. K.K. Singh and Prof. Vikas Jindal, Banaras Hindu University, Varanasi.**

Decision: The PAB approved for pilot for 6 months at a cost of Rs.12 lakhs for course development as per the SC recommendation.

4. **Development of quality portfolios encompassing standards, policies & quality assurance framework for e-learning paradigms by Prof P.N. Basu, Jadavpur University.**

Decision: The PAB did not approve the proposal and advised that they should contact C-DOT and come up with the revised proposal in collaboration with C-DOT.

5. **ICT Mission for University of Kashmir by Kashmir University Network Administrator and e-centre Coordinator.**

Decision: The project was not approved by the PAB as this is more related to infrastructure.

6. **Project Proposal for Infrastructure to become Recipient Remote Centre of IIT Bombay (CDEEP) on Virtual Laboratories for VLSI & embedded systems by Dr. R. K. Singla, Punjab University, Chandigarh.**

Decision: The PAB did not approve the proposal as such IIT Delhi may look at the proposal.



Item No.4

The recommendations of the Standing Committee in its meeting held on 19.09.09 for approval of 1 project along with presentation were considered, discussed and reviewed by the PAB. Based on the recommendations of the Standing Committee and the discussions held in the meeting, the following proposal was approved by PAB as a pilot project.

Up-gradation of ICT-enabled High Voltage Laboratory at NIT, Durgapur PI: Prof. Nirmal Kumar Roy

Decision: The PAB approved the proposal for pilot at a cost of Rs.7 lakhs for development of 1 experiment out of 7 in collaboration with IIT, Delhi. The funds are to be given to IIT Delhi.

Item No.5

The recommendations of the Standing Committee in its meeting held on 03.10.09 for approval of 3 projects along with presentations were considered, discussed and reviewed by the PAB. Based on the recommendations of the Standing Committee and the discussions held in the meeting, the following proposals were considered as mentioned against each:

- 1. Expansion of Technology Enhanced Learning Initiatives of Visvesvaraya Technological University by Prof T.N.Nagabhushan, Visvesvaraya Technological University, Mysore.**

Decision: The PAB approved for pilot at a cost of Rs.70 lakhs. However, it is to be ensured that the remaining quadrants for the course of NPTEL may be prepared under this project only. Consent of the NPTEL Committee may be taken.

- 2. Establishing e-Training Environment for Training Technical Teachers & Students by Dr. P. Sivakumar and Dr. G. Kulanthaivel, NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, Chennai**

Decision: The PAB approved the proposal for pilot for creation of 4 courses at a cost of Rs.28 lakhs.



3. To prepare e-contents & videos in the area of manufacturing technology courses for UG & PG students & Industry users by DR. SANTOSH KUMAR, Banaras Hindu University, VARANASI

Decision: The PAB approved for pilot for 2 courses at a cost of Rs.14 lakhs as per the recommendation of SC. However, PAB advised to rope in with the industries for capabilities checking, etc.

Item No.6

The recommendations of the Standing Committee in its meeting held on 10.10.09 for approval of 1 project along with presentation were considered, discussed and reviewed by the PAB. Based on the recommendations of the Standing Committee, the following 1 proposal was approved by PAB as a pilot project.

1. e-learning in Mathematics at Undergraduate and Postgraduate Level, Bhaskaracharya Pratishthana, (Institute of Mathematics), Pune

Decision : The PAB approved for pilot for development of 4 courses at a cost of Rs.28 lakhs.

However, PAB also recommends that the Institute should collaborate with IITs for video generation and as such, does not approve the cost of Rs.20 lakhs towards studio, etc.

Item No. 7 - Table Agenda

Providing bandwidth to Operationalise the System-Ratification thereof

It was informed to the PAB that Shri Anil Jain, General Manager (Broadband), BSNL has informed that many colleges are finding it difficult to use the VPN over Broadband facility because international bandwidth has not yet been pumped into the VPN System for them. It was further informed that BSNL was requested to ensure that at least 2 Gbps international bandwidth is pumped into the VPN over broadband being provided to colleges so that they could effectively use internet facilities. BSNL has also been requested to inform the Mission when utilization reaches 80% of the capacity provided, so that position is reviewed thereafter.

Further it was informed to the PAB that in order to enable BSNL servers to serve NPTEL content all over the country, a hard disk of 1 terabyte containing NPTEL video and web courses was also sent to BSNL which will be got uploaded into BSNL servers and IPTV services and also on the Network. This would begin dissemination of e-content developed so far to all the colleges in the country.

After discussion, the Project Approval Board ratified the above.

Other Item:

Recommendations of the Members of Project Approval Board

PAB drew analogy from the Space Commission that the outgoing chairman still continues as member of the Commission and requested Shri R.P. Agrawal to be life-long Ambassador of the NMEICT and recommended that he may be made life-long member of PAB. PAB also decided that Shri R.P. Agrawal should be facilitated to remain connected with NMEICT all through by providing connectivity to him.

The meeting ended with vote of thanks to the Chair.

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**Project Approval Board of National Mission on Education Through Information and
Communication Technology (ICT)**

List of Members

S.No.	Name, Designation and Address	Fax Nos.
1.	Secretary, Department of Higher Education, Chairperson, Ministry of Human Resource Development, Shastri Bhawan, New Delhi-110001 Chairperson	
2.	Additional Secretary & Financial Adviser, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi-110001	
3.	Secretary, Planning Commission, Yojana Bhawan, New Delhi-110001	23096575
4.	Secretary, Department of Telecommunications, Sanchar Bhawan, New Delhi-110001	23711514
5.	Secretary, Department of Information Technology, Ministry of Communication and Information Technology, CGO Complex, Lodhi Road, New Delhi-110001	24363134
6.	Secretary, Department of Space, Lok Nayak Bhawan New Delhi	080-2345328
7.	Adviser/Scientist 'G', SERC Division, M/o Science & Technology, D/o Science & Technology, Technology Bhawan, New Delhi-110016	26602193
8.	Director, Indian Institute of Technology, Powai, Mumbai – 400076	22-25723546
9.	Director, Indian Institute of Technology, Roorkee-247667 Uttarakhand	1332-273560

10.	Director, Indian Institute of Technology, North Guwahati Guwahati-781039 Assam	361-2690762 361-2692321
11.	Director, Indian Institute of Technology, P.O. Kharagpur -721302	3222-282000
12.	Director, Indian Institute of Technology, P.O. IIT Chennai -600036	44-22578003
13.	Director, Indian Institute of Technology, Kanpur-208016 UP	512-2597790 512-2590260
14.	Director, Indian Institute of Science, Bangalore-560012 Karnataka	80-23600936
15.	Director, Indian Institute of Science, Hauz Khas New Delhi-110016	11-26582659
16.	Prof. V.N.Rajashekhar Pillai Vice-Chancellor, Indira Gandhi National Open University (IGNOU), Maidan Garhi, New Delhi	
17.	Prof. Pramod Tandon Vice-Chancellor, North Eastern Hill University (NEHU), Shillong	
18.	Prof. H.P.Kincha Vice-Chancellor, Visvesvarya Technological University, Belgaum	

Copy also to, along with Minutes:

S.No.	Name, Designation and Address
1	Dr. B.K.Murthy Director & Head National Knowledge Network Division Deptt. of IT Electronics Niketan, CGO Complex, Lodhi Road, New Delhi-110003
2	Prof. Sudhir Kumar Saxena Director, Department of Telecommunication Sanchar Bhavan, 20, Ashoka Road, New Delhi-110001
3	Mrs. Shakila Shamsu Joint Adviser, Planning Commission, Yojana Bhawan New Delhi
4	Dr. A.Mukhopadhyay Scientist - G Department of Science & Technology, Technology Bhawan New Mehrauli Road New Delhi-110 016 Tel: 011-26590445 TelFax:011-26602193 Email: tsd@nic.in
5	Dr. D.K.Paliwal Deputy Educational Adviser (DL) Department of Higher Education Ministry of Human Resource Development Shastri Bhawan, New Delhi-110001
6	Prof. Kushal Sen IIT Delhi Hauz Khas New Delhi
7	Prof. Ravi Shaker Joint Secretary (IT) Department of Information Technology Electronics Niketan CGO Complex, Lodhi Road New Delhi

8	Prof. Prem Kalra IIT Kanpur Kanpur
9	Mr. Ghanshyam Dass Project Manager (NMEICT)
10	Mr. Mithun Dutta System Administrator E Gyankosh IGNOU Maidan Garhi New Delhi

He is requested to upload the Minutes sent herewith on the SAKSHAT Portal immediately.

Annexure-1

Attendance of 10th Meeting of Project Approval Board (PAB) of National Mission on Education through ICT held on 29th October 2009 at MHRD

S.No.	Name, Designation and Address
1.	Shri R.P. Agrawal, Secretary, Department of Higher Education, Ministry of Human Resource Development, Shastri Bhawan, New Delhi-110001
2.	Prof.D.Acharya Director, IIT Kharagpur-721302 West Bengal 09734501234 03222-282002
3.	Prof. Kushal Sen IIT Delhi New Delhi-110016 9810602231 kushal@textile.iitd.ernet.in
4.	Prof. Promod Tandon Vice Chancellor NEHU, Shillong-793022 943611861- profptandon@gmail.com
5.	Mrs. Shakila Shamsu Joint Adviser, Planning Commission, Yojana Bhawan New Delhi 23096766 shakilat.shamsu@nic.in
6.	Prof. Sudhir Kumar Saxena Director, Department of Telecommunication Sanchar Bhavan, 20, Ashoka Road, New Delhi-110001 23372575 sudhirsaxena@gmail.com

7.	Prof. N. Ravi Shanker Joint Secretary Deptt. of IT 24363124 nravishanker@nic.in
8.	Dr. A.Mukhopadhyay Scientist - G Department of Science & Technology, Technology Bhawan New Mehrauli Road New Delhi-110 016 Tel: 011-26590445 TelFax:011-26602193 Email: tsd@nic.in
9.	Dr. B.K.Murthy Director & Head National Knowledge Network Division Deptt. of IT Electronics Niketan, CGO Complex, Lodhi Road, New Delhi-110003 9810601683
10.	Harvinder Singh Deputy Secretary (PAE) Nodal Officer MHRD, Shastri Bhawan, New Delhi 9868839090
11.	Prof . Prem Kalra IIT Kanpur
12.	Sh. N.K.Sinha Joint Secretary MHRD, Shastri Bhawan, New Delhi
13.	Mr. Nandeesh Babu EdCIL