

File No.NMEICT (MS)/PAB/12

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 22nd February, 2010

Sub: Minutes of the **Twelfth** Meeting of Empowered Committee of Experts (Project Approval Board) of National Mission on Education through Information & Communication Technology held on 3rd February, 2010.

A copy of the Minutes of the **Twelfth** Meeting of the Empowered Committee of Experts (Project Approval Board) of National Mission on Education through Information & Communication Technology held on 3rd February, 2010 at 4.00 p.m. under the Chairpersonship of Secretary, Department of Higher Education, Ministry of Human Resource Development in Conference Room No.112-C Wing, Shastri Bhavan, New Delhi 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 Project Approval Board of National Mission on Education through Information & Communication Technology (As per list enclosed)

Copy, along with a copy of Minutes, to: PSO to Secretary (HE), PS to AS&FA and Joint Secretary(DL) – for information.

**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.	Additional Secretary & 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
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

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.	Prof. Pramod Tandon Vice-Chancellor, North Eastern Hill University (NEHU), Shillong
18.	Prof. H.P.Kincha Vice-Chancellor, Visvesvarya Technological University, Belgaum- 590018
19.	Mr. R.P.Agrawal Former Secretary C 1/17, Bapa Nagar New Delhi
20.	Prof. U.B.Desai IIT Hyderabad Ordnance Factory Estate, Yeddumailaram- 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

23.	Prof. Prem Kumar Kalra Director, IIT, Rajasthan C/o Indian Institute of Technology Kanpur IIIrd Floor, Halicopter Building, Kanpur-208016
24.	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
25.	Prof. Anil.K.Bhowmik Indian Institute of Technology Patna Navin Government Polytechnic Campus Patliputra Colony Patna 800 013
26.	Shri Pramod Bhasin Chairman, National Association of Software and Services Companies (NASSCOM), International Youth Centre Teen Murti Marg Chanakyapuri New Delhi 110 021
27.	Dr. Ajay Khare Director School of Planning & Architecture, Transit Campus: Sports Complex, MANIT, Bhopal-462051
28.	Prof. S.G.Deshmukh Director IIIT Gwalior Morena Link Road, Gwalior 474 010
29.	Dr. M.D.Tiwari Director IIIT Allahabad Deoghat, Jhalwa Allahabad

Copy also to, along with Minutes:

1. Dr. B K Murthy
HOD, DIT, MKM Division
Min. of Communication & IT
CGO Complex, Lodhi Road,
New Delhi-110001
2. Ms. Shakila Shamshu
Joint Adviser (Education)
Planning Commission
Yojana Bhawan,
New Delhi-110001
3. Prof. Navin Soi
Director (Finance)
MHRD, Shastri Bhawan,
New Delhi
4. Dr. D K Paliwal
DEA (DL)
Deptt. Of Higher Education
MHRD, Shastri Bhawan,
New Delhi
5. Shri Anil Jain
General Manager (BP-CFA)
BSNL, Room No.212,
Bharat Sanchar Bhawan
New Delhi **He is requested to take necessary action on Agenda Item No.7,
General Comments of PAB.**
6. Shri Mithun Dutta
System Administrator
E-Gyankosh
IGNOU
Maidan Garhi
New Delhi **He is requested to upload the Minutes sent herewith on the
Sakshat Portal.**

Minutes of the 12th Meeting of the Project Approval Board of National Mission on Education through Information and Communication Technology held on 3rd February, 2010 at 4.00 p.m. in Conference Room No.112-C Wing, Shastri Bhavan, New Delhi.

The 12th Meeting of the Project Approval Board of National Mission on Education through Information and Communication Technology held on 3rd February, 2010 at 4.00 p.m. in Conference Room No.112-C Wing, Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education.

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

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

Item No. 1:

Chairperson requested all the members to give their comments, if any, on the Minutes of the 11th PAB Meeting. Since no comments were received, the Minutes of the 11th PAB Meeting held on 4th December, 2009 were then confirmed.

Item No. 2:

Project Approval Board approved payment of sitting fee of Rs.1000/- (Rupees one thousand only) to the non-official members of Project Approval Board of NMEICT for their participation in each of the meetings of the PAB. The sitting fee shall be paid by the Mission Secretariat of the NMEICT.

Item No.3:

The Item was discussed in detail. PAB decided that the information uploaded on the electronics media is a foolproof system of transparency. Hence, there is no need to obtain public opinion before release of grant. However, the PAB has advised to systematically upkeep all the records and documents of the projects proposal to fulfill the requirement of transparency.

Item No.4:

The PAB has approved to include the name of Indian Institute of Advance Studies, Shimla (IIAS) under Indian National Library and Information Services Infrastructure for Scholarly Content (N-LIST) Programme and extend the access facility of all the resources which are being proposed under NLIST Project.

Further, the INFLIBNET be separately advised to include IIAS as member of the Consortium and extend the free access facility of e-resources in Social Sciences and Humanities.

Agenda item No.5**Approval for providing 10 Mbps Internet connectivity to Information and Library Network Centre (INFLIBNET)**

The PAB has presently approved 10Mbps Internet connectivity to each universities and colleges all over the States in India. However, the connectivity to certain institutes which do not fall under universities/colleges, for those institutes the connectivity is not provided under the mission.

Considering the importance of INFLIBNET in driving the Mission's Objectives, PAB approved to provide 10Mbps Internet connectivity to Information and Library Network Centre (INFLIBNET).

Agenda Item No.6

The Item was discussed in detail. The PAB decided that the premises at Delhi University, JNU and AIU may be explored for hiring of office space for Mission Secretariat of NMEICT. Further, the PAB requested Dr.M.D.Tiwari, Director, IIIT, Allahabad to personally explore the possibilities of providing space for Mission Secretariat at AIU.

Agenda Item No.7

The PAB has considered to include new IITs, NITs and IISERs in providing 1Gbps internet connectivity in view of the requirement and also to invite more number of institutions in participation of the Mission Objective.

General Comments of PAB

1. The BSNL to ensure that all Central Colleges/Universities to receive internet connectivity by 31st March, 2010.
2. A stringent time-frame has to be drawn for implementation of the connectivity.
3. Frequent review of the progress made towards internet connectivity by BSNL has to be undertaken at MHRD during PAB meetings.
4. The internet connectivity through optical fibre may be initiated immediately by BSNL so as to cover the maximum number of connections within this financial year.
5. The PAB has also advised BSNL to inform MHRD on the issue of transfer of grant through 'Letter of Credit' (LOC) so that funds from the Mission may be provided to BSNL in a short period for their maximum utilization before 31st March, 2010.

Agenda Item No.8

Matters for Reporting to PAB

(A). Technical Support Group (TSG) activities of EdCIL

All the issues detailed under the item were noted by PAB.

(B). Steps to get Consultants under the Mission Secretariat

The PAB was informed that the process of recruitment of Sr. consultants, as per the requirements of the Mission within parameters of the PAB decision has been initiated.

Agenda Item No.9

Dr. Rajanish Dass and Dr. Pradeep Verma made the presentation on "Awareness Building & Publicity Strategy Formulation".

After discussion, the PI committed the following outcomes:

- The strategy for diffusion and deliverables such as advertisements, etc for each of the 5 regions.
- Five products of advertisement etc will be provided in each of the 5 Regions.

- The strategy cutting across all the States bringing out mechanisms and products, subject-wise, for diffusion in the States, who are not coming up with the projects.
- Running tickers in Mission's website (www.sakshat.ac.in) and other important government websites.

Thereafter, the PAB approved the proposal worth Rs.63 lakhs, as recommended by the Standing Committee in its meeting held on 22nd August, 2009, with the condition that the above committed outcomes should be accomplished within two months of receipt of funds.

The following presentations were made before the PAB:

1. Virtual Lab

The virtual lab project status was presented before the PAB. The PI has come up with the "open issues" before the PAB. These were discussed in detail.

The PAB has suggested the following:

- Apart from IITs & premier institutes, other institutes should also be covered under the said project.
- PAB noted that, since the i-lab is available for free, proposal should involve the strategy of i-lab for marketing and popularization of these labs.
- The project should indicate clearly how many experiments are going to come-up, how many are not covered, what subjects are covered, what is the load required, cost, etc in their proposal. Also indicated to be more focused in their proposal.
- PAB advised to put up the proposal in next 10 days after catering to this.

The proposal was appreciated by PAB.

2. Village Community Network

The PI had presented the proposal before the PAB and explained that the main features of the project are as follows:

- This is a low cost networking system suitable to all the needs of NMEICT and is a standalone network system.
- This networking system shall be a next mile to NMEICT in regard to the overall economics of the project.

- The Issue regarding the spectrum allocation for e-education is a matter which will be looked into.

PAB advised PI to convert proposal in phases so that learning for each phase can be incorporated in next phase. The technology has to be demonstrated and shown as to how this can be implemented to the users and public at large.

The PAB has appreciated the proposal.

3. Teacher empowerment, Student empowerment and Integration tools for empowerment (Synchronous delivery) (AKA) Talk to a teacher

The PI had presented the proposal before the PAB and the following was discussed:

- The training center should be blended with Edusat & Network through cables
- The scaling should be done in respect to the training of teachers so as to popularize the scheme.

The PAB has appreciated the proposal.

4. Brihaspathi-2

The PI had presented the proposal before the PAB and highlighted the following:

- This is a peer to peer attempt and is done for the first time in the world.
- The servers are not required here and each computer shall act as an individual server.

The PAB has appreciated the proposal.

5. Education Resources Planning (ERP)

The PI had presented the proposal before the PAB and highlighted that the ERP system shall be donated to the country. The cost of the proposal is Rs. 20.46 crores.

The PAB on hearing the project proposal has made the following comments:

- The software to be used should be of open source and much more adaptable & practical.
- An independent group / user group is to be formed to look into each area / segment of ERP and give a feed-back for its optimization. Also the group should be in a position to assess the compatibility of the software.

The PAB has appreciated the proposal.

Any other Item

1. Creating Accessible study material for print impaired students by Nirmita Narasimhan, Centre for Internet and Society, Bangalore.

The PI had presented the proposal before the Standing Committee Meeting held on 18th and 19th July 2009. The SC in their recommendation had proposed for sanction of Pilot.

The PAB after hearing the views of the SC members, noted that it is the fundamental prerogative of National Missions such as NMEICT to provide funds for ensuring education independent of geography, economical and social status and above all physical disabilities of citizens of India. Hence, PAB has accepted to sanction the project for pilot for an amount Rs.53.00 lakhs (Rupees Fifty three lakhs) and IIT Kharagpur is identified as a nodal center for release of grant.

General Points Discussed

1. The SC Members requested PAB to continue to provide Rs.2 lakhs for each IITs and other premier institutes for undertaking workshop, seminars etc at their respective institutes for propagation of NMEICT.

The PAB agreed to provide Rs.2.00 lakhs for each IITs and other premier institutes for undertaking workshop, seminars etc at their respective institutes for propagation of NMEICT, on receipt of such proposals.

2. The PAB suggested that the important projects may be captured at the pilot stage itself and may be put up in website and made available in the form of CDs etc so as to disseminate the importance of NMEICT at initial stage rather than waiting till the main project is completed.
3. The PAB advised that all the e-content should be checked thoroughly for their existence which is already available in the open domain. For this purpose, the colleges may be contacted and feedback may be obtained on the various subject materials. To have a control on the e-content materials being generated through mission, a centralized monitoring has to be undertaken to avoid any duplication.

For the above said purpose, PAB has approved to constitute team/consultants, project-wise, for monitoring the same.

4. PAB advised that on frequent intervals a status note document has to be prepared and distributed across the States preferably half-yearly for effective propagation of the Mission.
5. The Standing Committee Members should pro-actively propagate the Mission objectives and identify groups for coming up with write-up in newsletters, dailies, etc to popularize the scheme.
6. The PIs had requested the PAB to accord approval for continuation of their staff/ manpower presently engaged for the pilot project in view of the fact that the Main DPR is still under consideration by the Mission. The PAB has approved that in the pilot projects, PIs may hold the manpower under their projects until 31st March, 2010.
7. The PAB has suggested that looking into the technical details by the PAB is very difficult and as such advised to create a forum where domain experts should evaluate the projects and give their inputs & recommendations in the form of summary for each project for PAB to take decisions.
8. DPR should include requirement of extension services and recommendation should be made in this regard by Standing Committee.
9. Independent Group of Reviewers should evaluate the product in a project.

The meeting ended with thanks to the Chair.

Attendance of the 12th Meeting of the Project Approval Board (PAB) of the National Mission on Education through Information & Communication Technology held on 3rd February, 2010 at 4.00 p.m. at Conference Room No. 112, 'C' Wing, Shastri Bhavan, New Delhi – 110001.

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	Prof. Huzur Saran Deptt. Of Computer Sc. & Engg. IIT Delhi Hauz Khas, New Delhi	saran@cse.iitd.ac.in
3	Prof. Prem Sewak Sudhish Deptt. Of Physics & Comp. Sc. Dayalbagh Educational Institute Dayalbagh, Agra 282 110	Ph: 0562 6458483 sudhish@pcs.dei.ac.in
4	Prof. Subbiah Arunachalam Centre for Internet & Society Bangalore	(M) 09790923941 Subbiah.arunachalam@gmail.com
5	Shri Rajanish Das IIM, Ahmedabad	(M) 09825309098 rajanish@iimahd.ernet.in
6	Prof. Pradeep Varma TERI University Delhi	(M): 9818182844 Varma.pradeep@gmail.com
7	Prof. Satish Kumar Head, Deptt. Of Physics & Comp. Science, Dayalbagh Educational Institute Dayalbagh, Agra 282 110	Tel: 0562 6548483 ext. 19 Skumar-db@ieee.org .
8	Dr. K.S. Daya Deptt. Of Physics & Comp. Sc. Dayalbagh Educational Institute Dayalbagh, Agra 282 110	sdayak@gmail.com
9	Prof. M Chakraborty IIT Bhubaneswar	Director@iitbbs.ac.in
10	Prof. Ajay Chakraborty IIT Kharagpur	(M): 09434005863 Fax: 03222 220508 deance@high.iitkgp.ernet.in
11	Prof. P.K. Kalra IIT Rajasthan	kalra@iitk.ac.in
12	Dr. D K Paliwal DEA, MHRD Deptt. Of Higher Education	Ph: 2338 5489 dkpaliwal@sb.nic.in

13	Shri Raj Kumar US (AL) MHRD	Ph: 2338 4187
14	Dr. Ratnajit Bhattacharjee Associate Professor ECE Deptt., IIT, Guwahati	Ph: 0361 2582503
15	Shri Vikas Tomar Project Staff Electrical Engg. Department, IIT Roorkee	(M) 09045617355
16	Dr. Joseph John Professor Electrical Engg. Deptt. IIT Kanpur 208016	Ph: 0512 2597088
17	Dr. S.D. Agashe Professor Instrumentation College of Engg. Pune 411005	(M) 09890229539
18	Shri S K Saxena Director (IT) Deptt. Of Telecommunication, New Delhi	Ph: 2337 2575 sudhirksaxena@gmail.com
19	Prof. Ajay Khare Director S.P.A., Bhopal	(M): 09425019780 director@spabhopal.ac.in Ph: 0755 2671120 ®
20	Prof. C Krishna Mohan IIT Hyderabad	(M) 09491712312 ckm@iith.ac.in
21	Dr. M D Tiwari Director IIIT, Allahabad	(M) 09415235175 mdt@iiita.ac.in
22	Dr. S G Deshmukh Director ABV-IIITM, Gwalior 474 010	(M): 09425786444 director@iiitm.ac.in deshmukhsg@gmail.com
23	Dr. B K Murthy HOD, DIT, MKM Division Min. of Communication & IT	(M) 98106 01683 bkm@mit.gov.in
24	Shri C M Markan Reader, Deptt. Of Physics & Com.Sc. Dayalbagh Educational Institute Dayalbagh, Agra 282 110	Ph: 0562 645883 x 15 cm.markan@gmail.com
25	Shri Vishal Sahni Project Coordinator Quantum-Nano Centre Faculty of Engineering Dayalbagh Educational Institute Dayalbagh, Agra 282 110	(M): 09319211231 deivishalsahni@rediffmail.com

26	Prof. D K Chaturvedi Professor, Deptt. Of Elect. Engg. Faculty of Engineering Dayalbagh Educational Institute Dayalbagh, Agra 282 110	(M) 09456433788 Dkc.foe@gmail.com
27	Dr. Soami P Satsangee Incharge USIC Dayalbagh Educational Institute Dayalbagh, Agra 282 110	(M) 09760230620 deivsic@gmail.com
28	Ms. Shakila Shamsu Joint Adviser (Education) Planning Commission	Ph: 23096766 Chekilet.shamsu@nic.in
29	Mr. N.K.Sinha Joint Secretary(DL) Department of Higher Education, MHRD, Shastri Bhawan, New Delhi	23387781 nksinha.edu@nic.in
30	Mr. R.P.Agrawal C1/17, Bapa Nagar, New Delhi	23384306 (M) 9910823311 rpa1949@gmail.com
31	Prof. Navin Soi Director (F)	23389247 nsoi@nic.in
32	Dr. C S Kumar, Associate Professor Institute Coordinator, Deptt. Of Mechanical Engg., IIT Kharagpur	(M) 09434005819 kumar@mech.iitkgp.ernet.in
33	Shri Harjinder Singh Professor Coordinator, Computational Natural Sciences Program, Centre for Computation Natural Sciences & Bioinformatics IIIT, Hyderabad	Ph: 040 6653 1277 Fax: 0406653 1413 (M) 09908811010 Harjinder.singh@iiit.ac.in
34	Dr. Vinod Kumar Professor & Head, Electrical Engg. Deptt. IIT Roorkee	(M) 09412074172
35	Dr. Gursaran Reader, Deptt. Of Mathematics, Faculty of Science, Dayalbagh Educational Institute Dayalbagh, Agra 282 110	Gursaran.dei@gmail.com
36	Dr. K Srinivas Deptt. Of Electrical Engg. Faculty of Engineering Dayalbagh Educational Institute Dayalbagh, Agra 282 110	Ksri32@gmail.com
37	Shri D Bhagwan Das Deptt. Of Electrical Engg., Faculty of Engineering Dayalbagh Educational Institute Dayalbagh, Agra 282 110	dbhagwandas@gmail.com

38	Prof. Sanjay G Dhande Director, IIT Kanpur – 208016	Ph: 0512 259 7258 sgd@iitk.ac.in
39	Dr. Krishnashree Achuthan Amrita University	(M) 09895483974 Krishna@amrita.edu
40	Mr. Harvinder Singh DS(PAE) & Nodal officer (NME-ICT) Department of Higher Education, MHRD, Shastri Bhawan, New Delhi	23382604 harvinder.edu@nic.in
41	Prof. Kannan Moudgalya IIT, Bombay	9869326979 kannan@iitb.ac.in
42	Prof. Yatindra Nath Singh Associate Professor (EE) IIT Kanpur	9336342154 ynsingh@ieee.org
43	Prof. K. Mangala Sunder Professor, Department of Chemistry, and NPTEL Coordinator, Indian Institute of Technology, Madras, Chennai	9444008706 mangal@iitm.ac.in
44	Prof. Kamal Bijlani Amrita University, Kollam, Kerala	9447571000 kamal1008@gmail.com