# File No.NMEICT(MS)/PAB/17 Government of India Ministry of Human Resource Development Department of Higher Education

15<sup>th</sup> December, 2010

To

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

Sub: Minutes of the 17<sup>th</sup> Meeting of Project Approval Board of National Mission on Education through Information and Communication Technology held on 26<sup>th</sup> November, 2010

Sir/Madam,

Enclosed please find Minutes of the 17<sup>th</sup> Meeting of the Project Approval Board (PAB) of National Mission on Education through Information and Communication Technology (NMEICT) held on 26<sup>th</sup> November, 2010 at 4.00 p.m. in Conference Room (First Floor), Central Secretariat Library (CSL) Building, Shastri Bhavan, New Delhi under the Chairpersonship of Secretary, Department of Higher Education for information and necessary action.

Yours faithfully,

(Dr.Harvinder Singh)
Director (TEL) &
Nodal Officer (NMEICT)

Tel: 011-23382604

### Copy to:

- 1. PSO to Secretary (HE)
- 2. PS to AS&FA
- 3. AS(TEL)
- 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 Chairperson		
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-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 Uttrakhand		
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 Technology,
	Hauz Khas
1.4	New Delhi-110016
16.	Prof. V.N.Rajashekhar Pillai
	Vice-Chancellor,
	Indira Gandhi National Open University (IGNOU),
17	Maidan Garhi, New Delhi
17.	Prof. Pramod Tandon
	Vice-Chancellor,
	North Eastern Hill University (NEHU), Shillong
18.	Prof. H.P.Kincha
10.	Vice-Chancellor,
	Visvesvarya Technological University,
	Belgaum- 590018
19.	Mr. R.P.Agrawal
10.	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
1	Room: 112A Western Laboratory Extension Chandkheda,
	Gandhinagar -382424
	Gujarat

S.No.	Name, Designation and Address		
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 Bhubaneshwar		
	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		
20.	Chairman,		
	National Association of Software and Services Companies		
	(NASSCOM),		
	International Youth Centre		
	Teen Murti Marg		
	Chanakyapuri		
	New Delhi 110 021		
	How Boilli 110 021		
27.	Dr. Ajay Khare		
	Director		
	School of Planning & Architecture,		
	Transit Campus: Sports Complex, MANIT,		
	Bhopal-462051		
28.	Prof. S.G.Deshmukh		
20.	Director		
	IIIT Gwalior		
	Morena Link Road,		
	Gwalior 474 010		
29.	Dr. M.D.Tiwari		
	Director		
	IIIT Allahabad		
	Deoghat, Jhalwa		
	Allahabad		

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MINUTES OF 17<sup>th</sup> MEETING OF PROJECT APPROVAL BOARD OF NATIONAL MISSION ON EDUCATION THROUGH INFORMATION AND COMMUNICATION TECHNOLOGY HELD ON 26<sup>th</sup> NOVEMBER, 2010 AT 4.00 P.M. AT CONFERENCE ROOM (FIRST FLOOR), CENTRAL SECRETARIAT LIBRARY (CSL) BUILDING, SHASTRI BHAWAN, NEW DELHI.

The 17<sup>th</sup> Meeting of the Empowered Committee of Experts (Project Approval Board) (PAB) of National Mission on Education through Information & Communication Technology was held on 26<sup>th</sup> November, 2010 at 4.00 p.m. in Conference Room (First Floor), Central Secretariat Library (CSL) Building, 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.

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 16<sup>th</sup> PAB Meeting. No comments were made by anyone present. PAB also took note of the contents of letter dated 19<sup>th</sup> October, 2010 received from Dr.B.K.Gairola, DG, NIC, requesting for modifications in the minutes of the joint meeting of 2<sup>nd</sup> National Apex Committee and 16<sup>th</sup> PAB held on 1<sup>st</sup> September, 2010. Since the proceedings of the said meeting were videorecorded and the minutes were prepared accordingly and the Department of Higher Education has also now proposed seeking directions of the Cabinet, it was felt that the request Dr.Gairola is not to be taken into account. Thereafter, the Minutes of the 16<sup>th</sup> PAB meeting held on 1<sup>st</sup> September, 2010 were confirmed.

#### Item No.2

Action Taken Report on the Minutes of 16<sup>th</sup> Meeting of the Project Approval Board held on 1<sup>st</sup> September, 2010 was noted by PAB. AS(TEL) informed PAB that IIM Ahmedabad has not so far returned the money released to it under one of the projects of NMEICT. PAB then suggested that this could be considered for adjustment while releasing plan grant to IIM Ahmedabad by the bureau concerned in the Department of Higher Education.

### Item No.3

Review of Decision-National Programme on Radio Enabled Learning by Commonwealth Educational Media Centre for Asia (CEMCA), New Delhi

Deferred for next meeting of PAB.

### Item No.4

The PAB discussed the following proposals.

### 1. ME24091011361

Developing ICT based pedagogical practices for management accounting, Dr.Manoj Shah

### 2. JNE-23091011355

Network of interoperable distributed institutional repositories in universities and institutions of higher education research and India, Dr.Jagdish Arora, Inflibnet, Gujarat

### 3. DE-21091011349

Development of e-contents on foundation course on analytical biochemistry and separation techniques, Dr.Charmy Kothari, Christ college, Rajkot.

- 4. E-Kalpa Creating Digital Environment for Design in India, Ravi Poovaiah, IIT, Bombay
- 5. Robot Enhanced Teaching of Subjects in Engineering Colleges, Prof. Kavi Arya, IIT, Bombay
- 6. Assimilation of Open Source Software in Science and Engineering Education, Prof. Prabhu Ramachandran, IIT, Bombay
- 7. Development of Analysis and Indexing tools for harnessing educational videos, Dr. Gaurav Harit, IIT, Rajasthan
- 8. Development of Low Cost Mobile Robots, Dr. Swagat Kumar, IIT, Rajasthan

After discussion, the PAB decided to refer the matter to Standing Committee with the direction to have re-look at the proposals, especially the financial aspects involved. PAB desired that Standing Committee in its recommendations to PAB should invariably include its specific observations and recommendations with regard to reasonableness of cost estimates for both manpower and the proposed purchases of equipment etc.

### Item No.5 & 14

### **Remote Triggered Virtual Labs**

Dr.Ranjan Bose, Co-PI from IIT Delhi made a presentation on the progress made in the project and the funds required for main DPR. He informed that 23 labs have already been developed and 350 plus students have been trained for using virtual labs in the pilot project.

The full project on Simulation based Virtual Labs had already been sanctioned for Rs.80 crores against which IIT Delhi has received first installment of 30% i.e. Rs.24 crores till date. The Co-PI informed that the first installment has been spent and second installment of 40% i.e. Rs.32 crores is required to be released immediately. The PAB also approved that the next installment of 40% may be released to IIT Delhi for the full project, namely, Virtual Labs (Simulation based) sanctioned to it.

### Item No.6

### National Centre for e-learning,PI: Prof.A.K.Bakhshi

Prof.A.K.Bakhshi made a presentation before PAB, highlighting the various aspects of the proposal.

The PAB discussed the proposal. After discussion, PAB decided to refer the matter to Standing Committee with the direction to have re-look at the proposals, especially the financial aspects involved. PAB desired that Standing Committee in its recommendations to PAB should invariably include its specific observations and recommendations with regard to reasonableness of cost estimates for both manpower and the proposed purchases of equipment etc.

### Item No.7

### Production of Courseware e-content Development, Video Programmes & LORs Consortium for Educational Communication, New Delhi

Dr. Tilak R. Kem, Director, CEC-UGC made a presentation on this proposal, highlighting various aspects of the project.

The PAB discussed the proposal. After discussion, PAB decided to refer the matter to Standing Committee with the direction to have re-look at the proposals, especially the financial aspects involved. PAB desired that Standing Committee in its recommendations to PAB should invariably include its specific observations and recommendations with regard to reasonableness of cost estimates for both manpower and the proposed purchases of equipment etc.

### Item No.8

### Indian Library and Information Infrastructure for Scholarly Content (N-LIST), Principal Investigator: Dr. Jagdish Arora, Director, INFLIBNET Centre, Ahmedabad

Dr.Jagdish Arora, Director and PI INFLIBNET made a presentation about the project. He informed that 900 colleges have already subscribed for e-journals. Around 4000 colleges will be covered within the next one year.

The PAB noted that Rs.20 crores in two installments have been released to the Director, IIT Delhi who is the Principal Investigator of this project. PAB after deliberations decided that the project should be rigorously reviewed by experts in the area and referred this proposal to Standing Committee for a single recommendation along with reasonableness and justification for the proposed budget of Rs.4000.02 lakhs. It was also decided that the e-books to be procured should be linked to sakshat portal.

### Item No.9

### Extension of pilot of Vocational modules and Haptic Devices by Amrita Vishwa Vidyapeetham

The representative of Amrita Vishwa Vidyapeetham made a presentation before the PAB highlighting the progress made in the extended pilot phase and the further requirement of funds.

The PAB discussed the proposal. After discussion, PAB decided to refer the matter to Standing Committee with the direction to have re-look at the proposals, especially the financial aspects involved. PAB desired that Standing Committee in its recommendations to PAB should invariably include its specific observations and recommendations with regard to reasonableness of cost estimates for both manpower and the proposed purchases of equipment etc.

### Item No.10

### Approval for release of next installment to NPTEL

The PAB considered the request by the Director, IIT Madras and PI for NPTEL project for release of next installment of Rs.25 crores to the institute.

However, the PAB opined that NPTEL is not functioning as an aid to teachers and self-learning for teachers/students. The Phase-I material developed under NPTEL is a single quadrant product. Dr.Kannan from IIT Bombay informed that all material being generated under Phase-II and Phase-III will be 4-quadrant and efforts are being made even to make Phase-I also 4-quadrant.

The PAB decided that proper justification and more details for demand of Rs.25 crores may be obtained from the PI and the proposal for release of the 3<sup>rd</sup> Installment be processed on file.

### Item No.11

### Setting up of a Committee on Communication & Bulk Storage Servers at 100 premier Institutions

The PAB approved setting up a Committee on Communication & Bulk Storage Servers at 100 premier Institutions with the following composition:

- 1. Prof. Gautam Barua, Director, IIT, Guwahati
- 2. Prof. S.V. Raghavan, Scientific Secretary to PSA to GOI
- 3. Dr. Y.N. Singh, IIT, Kanpur
- 4. Prof. B.N. Jain, IIT, Delhi
- 5. Prof. Huzoor Sharan, IIT, Delhi
- 6. Prof. H.M. Gupta, IIT, Delhi
- 7. Ms. Shakeela T. Shamshu, Joint Adviser, Planning Commission
- 8. Dr. B.K. Murthy, Director (Scientist "F") and Head, National Knowledge Network, Department of Information Technology, New Delhi
- 9. Shri R.S. Mani, Sr. Technical Director, National Informatics Centre, CGO Complex, New Delhi
- 10. Mr. Luv Gupta, Principal Adviser, TRAI
- 11. Director (Finance), Department of Higher Education, MHRD
- 12. Representative of Department of Telecommunications, Govt. of India
- 13. Dr. P.K. Kalra, Director, IIT, Rajasthan Convener

### The PAB also approved the following Terms of Reference:

- a) To identify 100 institutions where communication and bulk storage servers could be installed;
- b) To suggest specifications of such servers;
- c) To suggest manpower needed for maintenance of such servers, along with space where such servers would need to be installed;
- d) To suggest methodology for procurement by the Institutions; and
- e) To suggest group of institutions with Principal Investigator which will anchor the project.

It was also decided that the Committee may co-opt more experts, if needed, for the benefit of Mission and TA/DA, as applicable, may be paid by the Mission.

The Committee will submit its report to Project Approval Board of NMEICT within a period of six weeks from the date of its constitution.

### Item No.12

### Low cost access-cum-computing device - Status Report

A presentation on the progress made in this regard by the representative of IIT Rajasthan. PAB took note of the status. The PAB was of the opinion that excise duty exemption, if any, for procurement of low cost devices may be pursued simultaneously.

### Item No.13

### Providing connectivity to universities & Colleges - Status Report

Representative of BSNL made a presentation on connectivity provided to universities and colleges. BSNL informed that 136 universities have been connected and it is awaiting consent for payment of universities/beneficiaries share from some universities. With regard to colleges, this number is 9731. AS (TEL) informed PAB that Planning Commission has made provision in this regard in the State Plans. PAB suggested that BSNL may get in touch with Planning Commission and collect relevant document(s) and pursue with State Governments for their consent for meeting 25% or 10%, as the case may be. BSNL also informed that tender process for providing LAN to universities is underway. BSNL reiterated its request for up-gradation of international bandwidth beyond 2 GB. PAB decided that upto 10 GB of international bandwidth can be provided. BSNL however, will utilize according to realistic requirement.

General Observation/Comments of PAB - With regard to making open sources user friendly the example of SCILAB and PYTHON was mentioned by Prof.Kannan of IIT Bombay. It was decided that MHRD may write to Central Educational Institutions and to AICTE for pursuing with the institutions affiliated to it for making use of SCILAB and other Open Source Softwares. It was also decided to request the institutions to explore Open Source Software Solutions before blindly adopting proprietary softwares for their academic, administrative and financial needs.

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

Attendance of the 17<sup>th</sup> Meeting of the Project Approval Board (PAB) of the National Mission on Education through Information & Communication (NMEICT) Technology held on 26<sup>th</sup> November, 2010 at 4.00 p.m. at Conference Room (First Floor), Central Secretariat Library (CSL) Building, Shastri Bhawan, New Delhi.

S.No.	Name, Designation and Address	Phone No., Fax and Email
1	Ms. Vibha Puri Das	Chairperson
	Secretary (HE)	}
1	MHRD, Shastri Bhawan,	
	New Delhi	
2	Mr. N.K.Sinha	23387781
	Additional Secretary(TEL)	nksinha.edu@nic.in
	Department of Higher Education,	
	MHRD, Shastri Bhawan, New Delhi	
3	Shri Vinayshil Gautam	26591171 (o)
	A.AL_Sagar Chair Professor	26862620 (f)
	of Management IIT (D)	gautamvinay@hotmail.com
	Hauz Khas	
	New Delhi-110016	1
4	Shri Amit Patra	03222-282034 (Ph/Fax)
}	Dean	deanaa@hijle.iitkgp.ernet.in
}	(Alumni Affairs And International Relations	
	IIT, Kharagpur	
5	Shri R.P Agrawal	9910823311
	Chairman	rpa1949@gmail.com
1	BOG	1
	IIT, Delhi	
6	Shri S.K. Roy	9868886588
}	AS & FA	skray@nic.in
	Ministry of Human Resources Development	}
· ,	Shastri Bhawan	
·	New Delhi	
7	Dr. Harvinder Singh	23382604
}	Director (PAE) & Nodal officer	harvinder.edu@nic.in
	(NME-ICT)	
	Department of Higher Education,	
	MHRD, Shastri Bhawan, New Delhi	000000000
8	Shri R. Sagi Kumar	9868280066
	DGM (NWP-BB)	
	BSNL Corporate Office	
	New Delhi	0447571000
9	Prof. Kamal Bijlani	9447571000
	Amrita Vishwa Vidyapeetham	kamal@amrita.edu
	Korlan	
}	Kerala	
10	Prof. Rajan Bose	9818253072
10_	IIT Delhi	rbose.iitd@gmail.com
		10000.iita(@giriaii.ooiri

11	Shri Pradeep Kaul	9868274690
	Jt Director	kaulp@rediffmail.com
	CEC	
}	Aruna Asaf Ali Marg	
	New Delhi-110067	
12	Dr. Jayashree Shinde	9820779375
]	Dept of Edu Techno	jvshinde@gmail.com
	SNDT University	det@sndt.ac.in
	Mumbai	
13	Prof. Kannan Moudgalya	9869326979
	Professor	kannan@iitb.ac.in
	IIT Bombay	
14	Shri V.M. Gupta	24362115
	Scientist 'D'	vm.gupta@nic.in
	NKN Division	,
	Department of Information Technology	
15	Dr.H. Maheshappa	9880288083
	Vice Chancellor	vc@vtu.ac.in
1	Visvesvaraya Technological University	
	Belgaum	
	Karnataka	
16	Dr. M. R. Rajeshwari	9810145036
	Addl. Professor	rajeshwari3011@hotmail.co
	Biochemistry Dept	<u>m</u>
	AIIMS	
L	New Delhi	
17	Prof. A.K. Bakhshi	9818352820
	Director	akbakhshi2000@yahoo.co
	Institute of Life Long Learning	<u>m</u>
	University of Delhi	
18	Dr. N. K. Verma	09455843959
	Department of Electrical Engineering	nishchal@iitk.ac.in
	IIT, Kanpur	
	U.P	
19	Dr. Jagdish Arora	9725051200
	Director,	<u>iarora@inflibnet.ac.in</u>
	INFLIBNET	
	Ahmedabad	