National Mission on Education through
Information Communication Technology (NME-ICT), MHRD

"Standing Committee"

Minutes of the Standing Committee, NMEICT, held on 10 January 2013, at Conference Room No.220, Conference Room, Department of Fertilizers, Shastri Bhavan, New Delhi

The following attended the meeting:

SC Members:

1) Shri Pradeep Kaul (Chaired the meeting)
2) Dr. D. B. Pathak
3) Prof. Uma Kanjilal
4) Shri Pradeep Varma
5) Prof. D K Singh
6) Prof. C G Mahajan
7) Dr. C. P. Srivastava
8) Prof. S. K. Singh
9) Prof. S. B. Deshpande

The following invitees and the PI also attended the meeting

1) Prof. Mani Bhushan
2) Prof. Shiva Subramanian
3) Dr. V. S. Shankar Sriram
4) Prof. Ashutosh Mahajan
5) Prof. Kavi Arya
6) Dr. Saraswathi Krithivasan
7) Shri M. Sivakumar
8) B. Anbuthambi
9) Shri Prem K. Kalra
10) Shri Vishal Sahni
11) Prof. Deepak Falwani
12) Prof. Ashish Dutta
13) Deepak Singh
14) Shree Sushil Prakash
15) Dr. C S Arora

Agenda 1

Project Title: Mobile IT Van for Empowerment of Rural Students in IT in the North Eastern State of Meghalaya
PI: Fr. Joby Joseph, St. Anthony's College
Control No: Control No. FMI1708111212
Issue(s): The PI was called to the SC Meeting to discuss the project submitted by him for recommendation.

The PI could not present himself before the SC on the day; accordingly the issue could not be discussed.

Agenda 2

Project Title: Virtual Lab on Practical Networking using Linux
PI: V.S. Shankar Sriram, Sastra University.
Control No: VVI21111112248
Issue(s): The PI has been invited to the SC Meeting to undertake Appraisal of the Proposal in the Ten Point format (Financial Due Diligence).
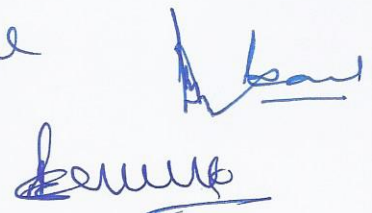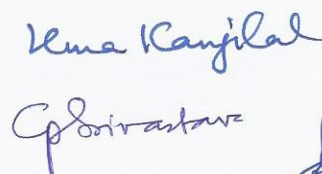
The proposal of the PI was deliberated in the SC Meeting held on 27th October, 2012 and the extracts of the SC Meeting are "The SC recommends this proposal for funding and that it be routed through the Virtual labs project. The SC recommends that the PI should consult Prof. Venkatesh Chopella, who is in charge of the computer science vertical of the Virtual Labs, and make the proposed labs, consistent with the framework of virtual labs"

The Proposal was again discussed in the SC meeting held on 31st October, 2012. The extracts of the SC Meeting are "The SC during its meeting held on October 18, 2012 has approved e-content production of 22 topics and linking it with Virtual lab model against the project proposal submitted by the PI, at a budget of Rs.15.4 Lakhs. However, since the project falls under Virtual Labs, the PI was directed to join the IIT Delhi, National Coordinator, Prof. Ranjan Bose. The SC in its present meeting deliberated and reviewed the project on 10-point Performa submitted by the PI and recommended the proposal for consideration by the PAB."

The Proposal could not be put-up to the PAB since the SC had not undertaken the Appraisal of the Proposal in the Ten Point format (Financial Due Diligence).

The SC in the meeting held on January 10, 2013, observed that the PI out of 22 topics is setting up 7 topics i.e., topic No. 14-20 as Remote Triggered Labs, where users of the virtual lab will be able to configure it by a set of commands. All the Labs shall be developed in-house at SASTRA University and shall be operative in a year's time, after the funds are received.

The SC observed the Due Diligence in respect of the project is in place as (i) the virtual lab proposed covers 3-tier architecture of network that needs a **Core Switch**, distribution switch

and edge switches. The core switch is not proposed to be procured under this project as the PI proposes to use the SASTRA University's core switch costing Rs.12 Lakhs for the project and the saving on the project (ii) The cost quoted for other items such as Distribution switch Layer-3 as Rs.3 Lakhs, Router with Gig port & support for all Routing protocols Rs.0.5 Lakhs, Edge Switch/Compact layer-2 qty 4, at Rs.2.5 Lakhs, 4 Computers at Rs.1.2 Lakhs, Wooden tables for the equipment as Rs.0.5 Lakhs, UPS, Printer, Scanner, Handy cam, Mic,, Passive Network, Cabinet, etc at Rs.1.5 Lakhs, and all the Capital Investment on the project costing as **Rs.9.2 Lakhs** are all very nominal and at par with the market rates.

Further the Recurring Cost on engagement of CCNA certified Network Administrator @ Rs.15,000/- p.m. and Flash Animator @ Rs. 20, 000/- p.m., Travel, conducting Meetings, documentation and contingency @ Rs.2.0 Lakhs and total Recurring Cost **Rs. 6.2 Lakhs**, further onetime payment to ten Reviewers @ Rs.5000/- and total Honorarium of Rs.0.5 Lakhs are all very nominal and is at par with the standard norms prevalent.

The SC further recommends the proposal be put before PAB for Approval.
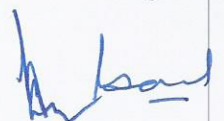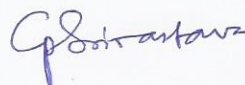
Agenda 3

Project Title: E-Resources for Geo-Informatics Applications, Education and Training Science
PI: Head, CSRE, IIT Bombay with several Co-PIs, Inst: IIT Bombay representing 12 institutions,
Control No: HE-11081011220
Issue(s): To give cost break-up of the project proposal that can be presented before the PAB meeting

The above issue was taken up by the PAB as Agenda item No. 4.3 in the 25th meeting held on November 6, 2012, PAB advised that the cost breakups for this project be presented in its next meeting. Since Prof Kannan, from IIT Bombay presented the case before the PAB, the SC therefore recommends that the PI along with Prof. Kanan submit the cost breakup to the SC and the issue be discussed in its next meeting. Accordingly the PI may be advised to do the need full.

Agenda 4

Project Title: Developing E-Learning Courses in Women's Studies,
PI: Prof. Veena Poonacha, SNDT Women's University, Sir Vithaldas Vidyavihar Juhu Road, Mumbai,
Control No: VE-19061212621
Issues: To present the revised budget as per requirements of developing the content in four quadrants as per NMEICT requirement."

The PI could not present herself before the SC meeting; accordingly the issue could not be discussed.

Agenda 5

Project Title: Digital Literacy Programme in the State of Tamil Nadu.
PI: ICT Academy of Tamil Nadu, ICTACT
Control No: BTE2609201212734
Issues: To train 75,000 higher education faculty members (Non IT) on digital literacy Level-0 in the state of Tamil Nadu by ICT Academy of Tamil Nadu.

Based on the recommendation of the Standing Committee, ICTACT has revised its target (beneficiaries) and would now train 75,000 teachers instead of originally proposed 1 Lakhs faculty.

The Standing Committee of NMEICT in its meeting held on 27th September, 2012 deliberated the Proposal.

The PI was called in the SC meeting held on 31st October, 2012, since the PI from ICTACT could not come at short notice and SC members had some clarifications to seek from the PI, it was decided to invite him in the next SC meeting for the presentation.

The PI presented himself and made a presentation before the SC Meeting held on January 10 2013. The PI made a presentation of the modified proposal and informed that he has prepared a draft 'Core Manual' and explained the flow chart regarding DLP implementation and monitoring. The SC members offered few recommendations that are recommended to be implemented, including that the PI should ensure (i) Open Office to be replaced by Libre Office, (ii) familiarity of teachers on Sakshat, NMEICT and (iii) applications related to the use of Aakash Tablets is imparted to all teachers in the training. That in the first instance only 25,000 teachers may be trained in six months period.

The SC observed that the PI has suggested the initial cost of training a teacher as Rs.332.27, where in a meeting headed by AS [TEL] held on September 26, 2012, it was decided that the Zero level Digital Literacy shall be capped at Rs.330/-. Accordingly the PI was advised to keep the cost of training a teacher by ICTACT at Rs.330/-. It was further suggested that since at present only two proposals have been put forward by ICTACT & BHU, both the PIs should review together the DLP Course Modules and Digital Literacy Programme in totality, in consultation with Core NMEICT Team, Shastri Bhavan before the launch of the scheme and ensure the consistency in the programme is maintained.

The SC observed that it needs to setup a common PRSG for ICTACT & BHU Digital Literacy programme once the proposals are approved by the PAB.

The SC noted from Dr. C.S. Arora, Senior Consultant (who uploaded the RFP of the Digital Literacy Programme), that Due Diligence in respect of the project has been achieved, as the call for submission of proposals against a RFP, was put up on the Sakshat Website on May 15, 20012, with defined Course Modules to be imparted to the Teachers, methodology of the training, etc. Further, a "Brain Storming session" was held at Shastri Bhavan on July 31, 2012

wherein more than 15 prospective PI attended the session. These exercises, resulted in submission of more than 7 proposals on sakshat website, including the above mentioned proposal. Further, vide a number of meetings headed by AS [TEL] the proposals received by the Mission on Digital Literacy were reviewed and in a final meeting held on this on September 26, 2012, looking into the quantum of work etc, it was decided that the Zero Digital Literacy shall be Capped at a maximum cost of Rs.330/- to training a teacher nationwide. It may be noted that the cost capped is the lowest quotation received. Further, six PIs presented their proposals before the SC. The SC in the first place approved two proposals and asked the remaining PIs to revise their proposals in light of the suggestions offered by the members.

The SC observed that the present proposal received from ICT Academy of Tamil Nadu, ICTACT is in accordance with the recommendations offered by a group Chaired by AS [TEL], i.e., at the cost of Rs.330/- to training a teacher statewide.

Recommendations:
The funds for Phase-I may be released to the PI for training 25,000 Teachers @ Rs330/-per teacher and project be completed in six months period, the PRSG conducted and continuation of Phase-II to be decided thereafter.

Agenda 6

Project Title:	Digital literacy and Empowerment of teachers in ICT
PI:	Dr. Abhijeet Singh, Banaras Hindu University
Control No:	DMI04091212722
Issue(s):	PI is required to appraise the SC, about the project in Ten Point format (Financial Due Diligence) in accordance with the requirements of PAB.

The SC noted from Dr. C.S. Arora, Senior Consultant (who uploaded the RFP of the Digital Literacy Programme), that Due Diligence in respect of the project has been achieved, as the call for submission of proposals against a RFP, was put up on the Sakshat Website on May 15, 20012, with defined Course Modules to be imparted to the Teachers, methodology of the training, etc. Further, a "Brain Storming session" was held at Shastri Bhavan on July 31, 2012 wherein more than 15 prospective PI attended the session. These exercises, resulted in submission of more than 7 proposals on sakshat website, including the above mentioned proposal. Further, vide a number of meetings headed by AS [TEL] the proposals received by the Mission on Digital Literacy were reviewed and in a final meeting held on this on September 26, 2012, looking into the quantum of work etc, it was decided that the Zero Digital Literacy shall be Capped at a maximum cost of Rs.330/- to training a teacher nationwide. It may be noted that the cost capped is the lowest quotation received. Further, six PIs presented their proposals before the SC. The SC in the first place approved two proposals and asked the remaining PIs to revise their proposals in light of the suggestions offered by the members.

The SC observed that the present proposal received from the PI from BHU is in accordance with the recommendations offered by a group Chaired by AS [TEL], i.e., at the cost of Rs.330/- to training a teacher statewide.

Recommendations:
The funds for Phase-I may be released to the PI for training 25,000 Teachers @ Rs330/-per teacher and project be completed in six months period, the PRSG conducted and continuation of Phase-II to be decided thereafter.

Agenda 7

Project Title: Development of Modular Robotic Systems for Education
PI: Prof. Ashish Dutta, Indian Institute of Technology, Kanpur.
Control No: AIn27080910259
Issue(s): Submission of Phase-II proposal, PI was asked to present his proposal for recommendation of the SC.

The PI reported that he was awarded a pilot project on 'Development of Modular Robotic Systems for Education' to be developed during the period from 1st April 2010 to 30th Sept. 2010, for which he was sanctioned Rs.16.40Lakhs by the NMEICT. The PI has completed the project with desired deliverables in time and has refund a sum of Rs.8,13,602.00 of the project budget to the MHRD.

The PI has now put a proposal to develop (a) Serial manipulators: serial arms with 4 DOF, (b) Mobile robots (three wheeled or four wheeled position, range, proximity and (d) Robots for advanced applications, which shall be in synchronous with the course of Engineering students and shall also produce self study manuals and intends to cover 10, 12 and 12 institutes in three years with a total budget of Rs.1,10,12,000/-.

The SC members have constituted a PRSG for the project, Refer Agenda 10 of this meeting, and the PI is requested to invite the Group and the review of the Phase-I project be conducted with reference to the Pilot DPR and proposed deliverables. Accordingly a completion certificate of project may be submitted to the NMEICT.

The SC members after going through the presentation observed that the project is well suitable to the needs of the Engineering students and the project should be taken up by the mission. The members however observed that another project on development of Robots has been awarded to Prof. Kavi Arya, IIT Bombay, as PI. It was therefore felt that there is a need to co-ordinate such developmental projects on Robots submitted under NMEICT.

The SC therefore recommends that all such PIs and Co-PIs along with PRSG members of the above project and a representative from NMEICT may form an **'Advisory Group'** on the lines of Virtual Labs, (i) to ensure repetition occurring in such projects is avoided, (ii) develop a policy on Robotic developments and long term planning to encourage projects on Robotics under

NMEICT, (iii) the project proposal submitted by Prof. Ashish Dutta be then put before the SC for its consideration. Prof Kavi Arya, IIT Bombay is requested to invite the Advisory Group and one NMEICT official, for a meeting, initiate necessary action on this and submit a report to the SC in a month's time, there after the project proposed by Prof. Ashish Dutta may be discussed by the SC.

The SC further recommends Prof. Ashish Dutta to use the Control Number of Phase-I for submitting similar projects on Robotics to the NMEICT.

Agenda 8

Project Title: Quantum and Nano Computing Virtual Centre
PI: Vishal Sahni, DEI, Agra
Control No.:   VR&0801201312830
Issues: The PI wants to move the project sanctioned to him to the next phase.

PI vide e-mail dated 20th December, 2012 informed that they have completed the pilot project in 2009-10 and the main DPR was sanctioned in May 2010. They have also mentioned that the International Review of their Project was held in December 2012 and the plan proposal for the next phase of 3 years was also prepared during the review. The PI has desired that they would like to move further to the next phase and request that their proposal be considered by the Standing Committee.

The SC noted, the PI states that he has completed the Phase-I of the project for which he was granted Rs.5 Crores and has now submitted a proposal for seeking funding for Phase-II. The SC noted that the PI has not submitted the Utilisation Certificate and statement of accounts regarding the grants the project has received from MHRD for the Phase-I. The PI is therefore requested to present a Completion Report of Phase-I from the PRSG Committee, constituted by the NMEICT, stating that the project has achieved the goals and deliverables set in the DPR and the funds have been utilised for the purpose it was sanctioned.

The PI made a presentation regarding the next phase of the project, he during next three years intends to develop about 450 e-content modules, train about 900 Teachers, 2250 students Research Scholars and 2250 High school Students and initiate other activities, the PI requires financial support to the tune of about Rs.5.00 Crores that include Winter / Summer School Organization costing Rs.3 Crores

The members observed that the financial support requested by the PI for the project especially to conduct Winter / Summer School workshops, costing Rs.3 Crores seems to be very high and therefore needs further justification. The SC requested the PI, after having submitted Completion Certificate of Phase-I and statement of account, may resubmit the Phase –II proposal in line with to the Main DPR, also provide breakup of the activities and the items in proportion to set norms of the Mission.

Agenda 9

Project Title: "Development of Low Cost Mobile Robots: Robotics for Education"
Control No: SIN19061010920
PI: Dr Swagat Kumar
Issues: To resolve the change of PI, all three PIs [Dr.Deepak Fulwani (IIT Rajasthan), Dr. Indrani Kar (IIT Guwahati) and Dr.Sandeep Ydav (IIT Rajasthan)] were requested to present before the SC.

The item was discussed in the SC Meeting held 27th July, 2012, SC decided that: 'to transfer an existing project to a new PI who is different from the existing Co-PI, the PAB would take a decision based on recommendation of the SC'. It was also pointed out that to transfer an existing project to a new PI, the following would be required:

1) Normally, the request for a change of PI should be sent by the existing PI, through proper channels of the Institute. But now that the PI has resigned from IIT Rajasthan, a letter from the Head of the institution to the Mission Director recommending the new PIs is required.
2) The CV of the new PI giving details of his/her participation in the project, or if there is no participation, details of his/her expertise in the relevant area are to be provided.

These will then be put up to the SC and the existing PI, the two co-PIs and the new proposed PI will be called to a SC meeting for a discussion. Based on this, SC will make recommendations to the PAB. Until the issue of Principal Investigator is resolved, there should be no major expenses in this project.

The item was again discussed in the SC Meeting held on 31st October, 2012, The extracts of the SC Meeting held on 31st Oct, 2012 are re-produced hereunder "Dr. Swagat Kumar PI of the project has resigned from IIT Rajasthan and in his place name of Dr. Deepak Fulwani Asst. Prof. in IIT Rajastan has been recommended by the Director for continuation of the project. SC reviewed the correspondence received from the Director of the Institute, Coordinator R&D, IIT Rajasthan and the consent letters of the Co- PIs. The SC suggested to invite the proposed PI, Dr. Deepak Fulwani and Co- PIs to the next SC meeting, to take final decision on the issue."

The proposed PI Dr. Deepak Fulwani was present during the SC meeting, however it was observed that in accordance with the decision of SC the Co-PIs were not present hence a decision on migration of the project could not be taken.

The SC reiterates its earlier decision to invite the proposed PI, Dr. Deepak Fulwani and Co- PIs to the next SC meeting, to take final decision on the issue."

Agenda 10

Issues: Constitution of Project Reviewing and Supervising Group (PRSG).

The List of projects along with proposed names of Reviewers has been received from concerned PIs for constitution of PRSG.

The SC reviewed the names of Reviewers, proposed by the PIs, of a number of projects and the projects submitted by the NMEICT office and recommend the PRSG Committee for such projects. However, it observed some discrepancy between the projects for which the PRSG has already been constituted and the projects submitted for constitution for PRSG. The present PRSG recommendations shall be released once the issue is looked into.

The SC observed that

(i)   For projects having common PIs such as projects under Prof. Dr. Deepak B Phatak, Prof. Ashok Jhunjhunwala and others, in order to save on travel time for the members & for economic reasons, there is a need to constitutes a common PRSG Committee for such projects,

(ii)   The first PRSG meeting of a number of projects has so far not been held, the NMEICT Secretarial or TEL office may issue notifications to all PIs wherever the PRSG has been constituted and a reminder to the PIs, who so far have not held a PRSG meeting, may be sent to conduct PRSG meeting before March 31, 2013, failing which the future funding on the project cannot take place and

(iii)   In order to ensure the objectives and the interests of the NMEICT are looked into, the SC recommends that one or two SC member(s) and or Senior Consultants, NMEICT should be constituent members of each PRSG.

Agenda No: 11

Project: VSAT. Mobile Integration
PI: Indian Institute of Technology, Roorkee
ISSUE: PI has submitted Utilization Certificate for the years 2009-10; 2010-11 and 2011-12. SC is requested to assess the Utilization Certificate.

The SC noted the utilization certificate for the years 2009-10, 2010-11 and 2011-12 submitted by the PI. It will, however not be possible for the SC to verify each and every transaction and to report whether right price is paid for each item. This should be the responsibility of the institution where the project is carried out and audited as per the institution's norms.

Agenda No: 12

Project: Benchmarking of information and Communication Technology modules in Physics and Chemistry,
PI: IIT Kanpur.
Issue: Institute has submitted Utilization Certificate for the years 2009-10; 2010-11 and 2011-12. The SC is requested to assess the Utilization Certificate.

The SC noted the utilization certificate for the years 2009-10; 2010-11 and 2011-12 submitted by the PI. It will, however not be possible for the SC to verify each and every transaction and to report whether right price is paid for each item. This should be the responsibility of the institution where the project is carried out and audited as per the institution's norms.

Agenda No.13

Project: 'Talk to the Teacher 10 thousand Teachers' and 'Aakash' Projects
PI: Prof. Dr. Deepak B Phatak, Department of CSE, IIT Bombay

Prof. Dr. Deepak B Phatak, PI of both the projects made a detailed presentation on Talk to 10 thousand Teachers and Aakash Projects. The SC appreciated the efforts and the progress on the project made by the PI.

Agenda No.14
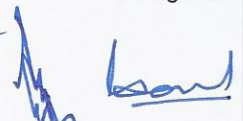
Project: E-Yantra, Robotics
Control No.:
PI: Prof. Kavi Arya, IIT Bombay

The PI informed that Prof. Krithi Ramamritham Co-PI of project has submitted a letter requesting that due to personal commitment he may be relieved from the project. The SC agreed to his request.

The Standing Committee, NMEICT, in its meeting held on 17 August 2012 had observed that (i) The PI should get the PRSG conducted at the earliest, to monitor progress made on the project, review the budget and the group may accordingly recommend funds that are required to be released to the PI and (ii) The PRSG report may then be submitted to the SC for further release of funds on the project.

The PI made a presentation on January 10, 2013 SC meeting regarding the progress that has taken place in the project, the PRSG of the project was held on September 7, 2012 and the progress reported by the PRSG in the project is satisfactory, the PRSG has gone through the Utilisation Certificate and the budget sanctioned and the PRSG has recommended the release of Rs.82.23 Lakhs due to the PI on the project.

The SC observed this issue was taken up as an Agenda item in 18th PAB meeting held on January 24, 2011, wherein Rs.127.82 Crores and Rs. 78.21 Crores for the first and second year respectively (i.e. a total of Rs.206.03 Lakhs) were approved for the project. Based on the decision the PAB in its meeting held on March 31, 2011 a sum of Rs.61.8 Lakhs was released to the PI, further on the decision of the PAB meeting held on April 4, 2012, Rs 62.00 Lakhs were released to the PI and a total of Rs.123.8 Lakhs have so far been released to the PI. Therefore based on the decision of the PAB to sanction Rs.206.03 Lakhs for the first and second year and having received Rs.123.80 Lakhs so far and having submitted a PRSG report that the project is progressing satisfactorily, the SC recommends that the remaining sum of Rs.82.23 Lakhs due to PI on the project may be released at the earliest.

Agenda No.15
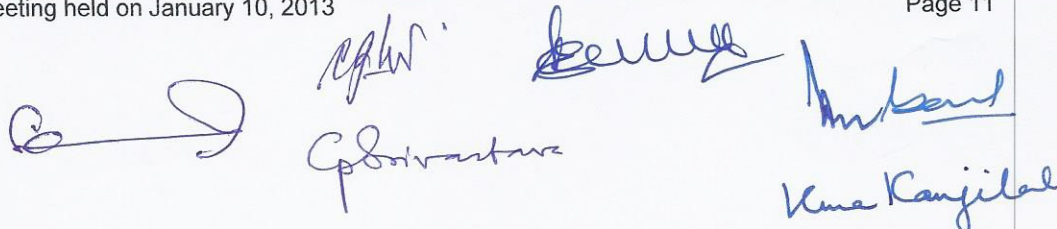
Project: Adoption of Free and Open Source Software in Science and Engineering
             Education (FOSSEE), IIT Bombay
Control Number: me-20021010551,
PI: Prof.   Prabhu Ramachandran, IIT Bombay

The PI & Co-PI, Prof. Mani Bhushan Prof. **Shivasubramanian Gopalakrishnan & Prof.
Ashutosh Mahajan** of IIT Bombay, made a PowerPoint presentation before the SC on the
progress made by the PIs in the project. They presented the PRSG report stating that (i) most of
the activities of the Main project have been completed or targets exceeded, (ii) activities need to
be expanded to include more packages and (iii) the project may have more collaborating
partners. The PIs informed that they have written to 4000 heads of the technical institutes to
make use of free & open software's such as Python & Scilab. The PIs informed that the SC had
Recommended Rs.318.5 Lakhs out of which the project has received only Rs.145 Lacks and
Rs.173.5 Lacks are yet to be received from MHRD. Based on the PRSG recommendations &
the experience gained, the PIs have now modified the Main Project and the PIs would like to
include more Modules for development such as COIN-OR, OpenFOAM, OpenCL and more
partner institute in developmental and popularization work, accordingly Rs173.5 due to be
released now need not be released, instead Rs.390 Lakhs are required to carry out the total
work. The PIs informed that a 'Completion Certificate' by the PRSG members stating that the
Project is over, has not been sought.

SC recommendations: The SC appreciated the work done under this project so far and
recommended the work be continued further as proposed. However, the PI is required to
submit to the SC, breakup of the budget that is required to meet the individual activities
specified in the project, indicate what was achieved in Phase-I, what needs to be developed and
popularised in Phase-II, Statement of Account and a 'Completion Certificate' from the PRSG
members, stating that the Project is over, and the deliverables are as per project report have
been delivered by the PIs.

It was pointed out by one of the member present that a similar project under the title
"development of Open source Simulation Packages" equivalent to Mat-lab Or-cad facilities has
been sanctioned under NMEICT to IIT Bombay, IIT Roorkee and Dayal Bagh Institutes and Rs.6
Crores are recommended by the SC and Rs.3 Crores released to the PIs. The Committee felt
that there is a need to consult all such FOSS project developers & popularisers to strengthen
each other, avoid duplication, if any, ensure costs on such activities are nearly similar and at
least the popularization programme are carried out together at institutes. It was therefore felt
that perhaps we need to create a 'Consortium' of all such PIs & Projects on the lines of Virtual
Lab Consortium to achieve the desired goals.

The SC therefore recommends all such PIs and Co-PIs of the above projects along with a
representative on NMEICT may form an **'Advisory Group'** (i) to ensure we avoid repetition
occurring in such projects, if any (ii) what should be our policy on FOSS development,

popularization & rollout and long term planning to encourage projects on FOSS under NMEICT, and (iii) the Group to recommend what part of the project should be at least carried forward together. Prof. Kannan Moudgalya, IIT Bombay is requested to invite the Advisory Group for a meeting, initiate necessary action on this and submit a report to the SC in a month's time.
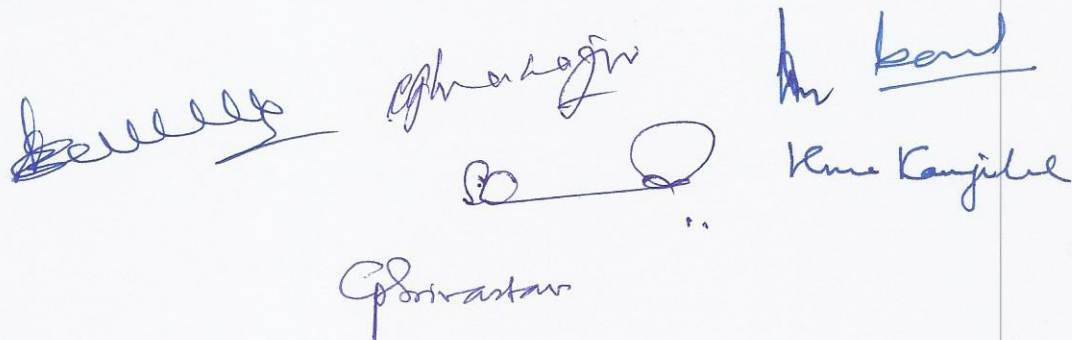
The SC further recommends that having done so much work on the development and popularization of FOSS under NMEICT, the MHRD may now write to the Chairman, AICTE to ensure that Heads of all technical institute should popularize FOSS and make use of all such software's developed such as Python, Scilab and software's developed that are equivalent to Mat-lab Or-cad and should avoid procurement of costly commercial software's in technical institutions.

Agenda No. 16.

Any other Issue:

The SC observed that some PIs and Members are not able to attend the SC meetings, because the notice given by the NMEICT officials was sometimes less than four days. In order to ensure that the meetings are more meaningful and efficient, it was decided that the PM, NMEICT to ensure in future to give at least ten days notice regarding conduct of SC meetings to all concerned.

The meeting ended with vote of thanks to the Chair.

Attendance of the Standing Committee Meeting held on 10th January, 2013, at 11.00 A.M. under National Mission on Education though Information & Communication Technology at Conference Room, Department of Fertilizers, Shastri Bhawan, New Delhi.

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Attendance of Standing Committee Members from Jan,2012 to Dec, 2012

S. No.	Name	Jan, 12	Feb, 12		Mar, 12	April & May, 12	June,12		July, 12		Aug, 12		Sep,12		Oct, 12			Nov, 12	Dec, 12	Total Mtgs
		13	2	22	23	No meeting was held	8	22	13	27	17	31	14	27	18	27	31	No meeting was held	No meeting was held	15
1	Mr. Pradeep Kaul	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			15
2	Prof. Uma Kanjilal	Y	-	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			14
3	Mr. Pradeep Varma	Y	Y	Y	Y		Y Skype	Y	Y	Y	-	Y	Y	Y Skype	Y	Y	Y			14
4	Dr. D.K. Singh	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	-	-			13
5	Prof. Kannan Moudgalaya	Y	Y	-	Y Skype		Y	Y	Y	Y	-	Y	-	-	-	Y	Y Skype			10
6	Dr. S.B. Deshpande	Y	-	-	-		Y	Y	Y	Y	-	Y	Y		Y	Y	Y			10
7	Dr. Jayashree Shinde	Y	-	Y Skype	Y		Y	-	Y Skype	Y	Y	-	-	-	Y Skype	Y	-			9
8	Prof. Kamal Bijlani (Rep. of Amrita Univ.)	Y	Y	-	-		-	Y	Y	-	Y	-	Y	-	-	Y	Y			8
9	Prof. C.G. Mahajan	Y	Y	Y	Y		-	-	-	Y	Y	Y	-	-	Y	-	Y			9
10	Dr. C.P. Srivastava	-	Y	-	Y		-	-	Y	Y	Y	Y	-	Y	Y	Y	-			9
11	Prof. S.K. Singh	-	-	-	-		-	-	Y	Y	Y	Y	Y	Y	Y	Y	-			8
12	Prof. K. Mangala Sunder	Y	-	Y	-		-	-	-	Y	Y	-	-	-	-	-	Y Skype			5
13	Prof. A. K. Tripathi	-	-	-	Y		Y	Y	-	-	-	Y	Y	Y	-	-	-			6
14	Prof. H.C. Chaudhary	Y	-	-	Y		Y	-	-	-	Y	Y	-	-	Y	-	-			6
15	Prof. R.C. Panda	Y	-	-	Y		-	-	Y	Y	Y	-	Y	-	-	-	-			6
16	Sh. A.K. Arora	Y	-	Y	-		-	Y	-	-	-	Y	-	-	-	-	-			4
17	Shri D.K. Kalra (Rep of AK Arora)	-	Y	-	Y		Y	-	-	Y	-	-	-	-	-	-	-			4
18	Dr. P. Nandini	-	-	-	-		-	Y	-	-	-	Y	Y	-	-	-	-			3
19	Dr. Y. N. Singh	-	Y	-	-		-	-	-	Y	-	-	-	-	Y	-	Y Skype			4
20	Dr. P. Ramanunjan	Y	-	Y	-		Y	Y	-	-	-	-	-	-	-	-	-			4
21	Dr. Jagdish Arora	-	-	Y	-		-	Y	-	-	-	-	Y	-	-	-	-			3
22	Prof. Karmeshu	Y	-	-	-		-	-	-	-	-	Y	-	-	-	-	-			2
23	Prof.. Rajanish Dass	-	-	-	-		-	-	Y	-	-	-	-	-	-	-	-			1
24	Dr. B.P. Singh	-	-	-	-		-	-	-	-	-	-	-	Y	-	-	-			1
25	Dr. S. Kazim Naqvi	-	-	-	Y		-	-	-	-	-	-	-	-	-	-	-			1
26	Dr. Rajeshwari R.M.	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
27	Dr. V.P. Srivastava	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
28	Dr. A.P. Tiwari	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
29	Shri Raghu Raman	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0

Attendance of Standing Committee Members from Jan,2012 to Dec, 2012

S. No.	Name	Jan, 12	Feb, 12		Mar, 12	April & May, 12	June,12		July, 12		Aug, 12		Sep,12		Oct, 12			Nov, 12	Dec, 12	Total Mtgs
		13	2	22	23	No meeting was held	8	22	13	27	17	31	14	27	18	27	31	No meeting was held	No meeting was held	15
30	Dr. R.K. Singh	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
31	Ms. Geeta Varshneya	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
32	Ms. Jayashree Srivastava	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
33	Ms. Ambika Gulati	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
34	Ms. Meena Goel	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
35	Ms. Vasudha Kamat	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
36	Prof. N.K. Sehgal	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
37	Dr. K.P. Chinda	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
38	Prof. Govindan Rangarajan	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
39	Prof. A.K.Bakhshi	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
40	Nupur Prakash Rep of Prof. Dilip K Bandopadhyay	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
41	Prof. S.C.Saxena	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
42	Dr. G.P.Srivastava	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
43	Prof. N. BalaKrishanan	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
44	Prof. S. V. Raghvan	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
45	Prof. Pami Dua	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
46	Mr. Rajiv Sinha	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
47	Mr. R.S.Powar	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
48	Prof. Kushal Sen	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
49	Prof. Prasanna Venkatraman	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
50	Prof. Dhananjay Bhattacharya	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
51	Zahid H. Khan	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
52	Dr. Krishnashree Rep. of Dr. P. Venkat Rangan	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
53	Prof. Kalyan K. Dutta	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
54	Prof. Rajneesh Das	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
55	Shri Amol Newaskar	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
56	Shri K. C. Pandita	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0
57	Dr. Sadanand More	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0