

*Two Day Conference*

# **Linux Thane 2006**

November 24 - 25, 2006

**Venue**

Thorale Bajirao Peshwe Sabhagruha  
'Jnanadweepa', Thane College Campus,  
Chendani, Bunder Road, Thane (W) 400 601.

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**Rajgopal S. Iyer**  
**Dalvir J. Reel**



*Organized by*

Department of Information Technology  
Vidya Prasarak Mandal's

**B.N. Bandodkar College of Science**

'Jnanadweepa', Chendani, Bunder Road,  
Thane (W) - 400601, Maharashtra

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## Chairman's Note

World over India is looked upon with respect as a IT powerhouse. But for it to become IT Superpower the technology needs to percolate down to the masses. We are witnessing the impact of Telecom revolution in the urban and rural areas. With 8% GDP growth, the next wave would be of huge adoption of computing technology across the country. When talking about IT one cannot miss the cost factor.

Educational institutions, on their part, should spread awareness and equip the students with the current knowledge about the available technology and happenings in the Industry to give their students an edge. In India apart from research institutes, commercial organisations like Life insurance Corporation of India, Indiabulls.com, etc are adapting Linux.

In India, if we want to increase computer density in schools and colleges, we need to offer computing environment which our educational institutes can afford. Open source operating system can achieve help this goal without compromising any quality. Our universities and other government departments, while designing syllabus and other IT guidelines must advocate for Open source. I am sure this seminar will help policy makers in this direction.

Vidya Prasarak Mandal, on it's part, has deployed Linux based Thin client network with around 100 thin clients catering to over 200 stakeholders in our management institute for day to day use. Though there were some teething problems, the end users started using it and are in fact quite happy with the performance, stability and privacy it provides.

It gives me great pleasure that Information Technology Department of B. N. Bandodkar College of Science is going to conduct a Two-day conference LinuxThane 2006. It has already conducted Two pre-conference workshops for B.Sc. (IT) & M.Sc. (IT) students and Lecturers of Mumbai University.

I wish them all the best for this conference and may this be the first in a series in coming years.

**Dr. Vijay V. Bedekar**  
Chairman  
Vidya Prasarak Mandal, Thane

## Convener's Note

It gives me a great pleasure to give the proceedings of the National conference on 'Linux Thane 2006' in your hands as the Convener of the conference.

Though I am not from the field of I.T. being the Principal of the college I felt that some Vigorous discussion on this topic is needed as our vision is Imparting Quality Education in Science. Since we are committed to quality education to students and the community we believe to help the students to go beyond syllabus and interact with the scholars of repute from the field.

Conferences and Seminars are right platforms for the same, where every year we have a wide discussion on selected topic. We have to announce our national conferences one year in advance. We hold two workshops prior to the conference, where students and researches are exposed to the theme of the topic. This creates awareness among the students who look forward to research as one of the carrier option.

For LinuxThane 2006 also we conducted two workshops, end result of it is my two S.Y.B.Sc.I.T. Students are presenting their research paper in this Conference.

As a Convener of the Conference and Principal of the college I am proud of my I.T. Staff and Students. I appreciate the full support of our Vidya Prasarak Mandal, my teacher colleagues, non-teaching Staff, the students of our college and all participants.

I am specifically thankful to all the supporters who extended the hands of help to Mr. Abhijeet Kale, our organizing Secretary.

We value your opinion about this conference.

**Dr Madhuri Pejavaer**  
Principal & Convener  
B.N.Bandodkar College of Science, Thane.

## Foreward

The landscape of computer software keeps changing day by day. The requirements of the users too keep increasing day by day. Though software, per se, can be made to do many things, some of the real world issues that keep popping are: Cost, Reliability, Support, Longevity, and Security etc. Individuals, organizations - whether private, academic, government, enterprises - have to grapple with these issues as usage of Computers keeps increasing day by day. There is software available for many different purposes. Often the relevant software is used to perform a task or some part of the overall work.

One very important thing to be remembered is that when one pays for software, they pay a license fee. In other words, one cannot own Proprietary software. They are legally a lessee. Think of it like one time rent (or yearly depending upon the License agreement). Most often individual desktop purchasers are not aware that they are perpetuating piracy when they ask their hardware vendor to “preinstall” many software without paying for the license in case of proprietary software. Some organizations, either due to pure and simple ignorance or to save costs, expect the hardware vendor to “preinstall” certain software without paying the license fee to the proprietors of the software. Often these licenses are very restrictive when it comes to redistribution, transfer etc.

FLOSS (Free / Open Source Software) on the other hand, provides an alternative to this proprietary model. The software is liberally licensed to grant the right of users to study, change, and improve its design through the availability of its source code and the right to distribute the changed program. FLOSS is being worked upon and continuously by many people around the clock, around the globe. The results have been tremendous, so much so that Harvard Business Review carried an article (How Toyota and Linux Keep Collaboration Simple 8/1/2005).

Recently Kerala government decided to deploy FLOSS in all state run schools with the help of Free Software Foundation India and many open source enthusiasts and practitioners. Many academic institutions like IIT Mumbai, C-DAC uses Linux extensively for its working. Apache, a web server, hosts almost 60 percent of the websites.

Though initial cost is an important factor in any IT Deployment, there are many more aspects to be studied in detail so that whatever is learned can be applied elsewhere fruitfully and effectively. This is especially true for academic institutions, which have to give exposure to the alternatives available in the marketplace.

Keeping the above in mind, VPM’s B. N. Bandodkar College of Science is organizing a seminar “LinuxThane 2006” on 24th and 25th November 2006 The motto of Vidya Prasarak Mandal “prajvaalito jnaanamayaH pradeepaH” supported by conference LinuxThane 2006. It purports to spread awareness and explore some of the areas where work in the open source paradigm is being carried out.

**Abhijeet A. Kale**  
Organizing Secretary

*Two Day Conference*

# Linux Thane 2006

November 24 - 25, 2006

## PROGRAMME

### 1st Day : Friday, November 24, 2006

09.00 Hrs. to 09.30 Hrs.	Registration, Tea & Snacks
09.30 Hrs. to 11.00 Hrs.	<b>Inaugural Function</b> <b>Chief Guest :</b> Mr. Shankar Iyer, Head, Global Learning Services, RedHat, India <b>Guest of Honor :</b> Prof. Sivakumar Head, Computer Science and Engineering Department Indian Institute of Technology, Mumbai Invitte Mr. Zia Aquib Executive Director, CDAC, Juhu, Mumbai
11.00 Hrs. to 12.00 Hrs.	Prof. Sivakumar (Free/Open Source Software in Engineering Curriculum)
<b>Session I :</b> 12.00 Hrs. to 12.30 Hrs.	Mr. Siji Sunny (Migrating IndiX from Xfree 86 to Xorg)
12.30 Hrs. to 13.30 Hrs. 13.30 Hrs. to 14.00 Hrs.	<b>Lunch Break</b> Mr. Anal Haque Warsi (Another 'world' is possible. aanatabharati)
<b>Session II :</b> 14.00 Hrs. to 15.00 Hrs	Demo by SUSE-Linux
15.00 Hrs. to 15.30 Hrs.	<b>Tea Break</b>
<b>Session III :</b> 15.30 Hrs. to 16.30 Hrs.	Prof. Hiren Dand, Prof. Sagar Patil, Prof. Santosh Soni (PVM and MPI : A Comprehensive Study and Comparison)

## **2nd Day : Saturday, November 25, 2006**

09.00 Hrs. to 09.30 Hrs.

Tea & Snacks

### **Session IV :**

09.30 Hrs to 10.00 Hrs

Mr. Abhijeet Kale

(Experimentation of Linux on VPM Campus)

10.00 Hrs to 10.30 Hrs

Ms. Priyanka Kadam and

Ms. Yashada Naik (S.Y.I.T. Students)

(Open source for Library)

10.30 Hrs. to 11.00 Hrs.

Prof. Verma

(Cost of Software Corporate Users Perspective)

### **Session V :**

11.00 Hrs. to 11.30 Hrs.

Mr. Arvind Sharma,

Root Technologies

11.30 Hrs. to 12.30 Hrs.

Linux Pune Interactive Session

12.30 Hrs. to 13.30 Hrs.

**Lunch Break**

### **Session VI :**

13.30 Hrs. to 15.00 Hrs.

Prof. Nagarjuna G.

(Swatantra Software)

15.00 Hrs. to 15.30 Hrs.

**Tea Break**

15.30 Hrs. To 16.30 Hrs.

Valedictory Function

Chief Guest : Prof. Nagarjuna G.

Chairman, Free Software Foundation of

India Scientist,

Tata Institute of Fundamental Research, Mumbai

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