

# NIS/IISER/equivalent must be established in Orissa.

- Gross injustice to Orissa: Announced National Institute of Sciences in Bhubaneswar renamed & shifted.
- Orissa ignored, neglected, and shortchanged by the HRD ministry over the years, and now punished by it.
- This must stop NOW?
- Orissa should no longer tolerate such anti-Orissa actions by the HRD ministry of India.
- India should no longer tolerate HRD ministry's behavior as a fief and its politically motivated actions that drives parts of India to backwardness and creates inequality and imbalance and puts pressure on the fabric of India.

Orissa has no institute of national importance (such as an IIT, IIM, IISc, ISI etc.), no central university and no autonomous science and technology institute. The only institute in Orissa fully funded by the HRD ministry is an NIT in Rourkela. In contrast the neighbouring state of West Bengal has an IIT, an IIM, an ISI, a central university, couple of autonomous science and technology institutes, and an NIT. A rough comparison of their funding reveals that the HRD ministry's funding of the above institutes in West Bengal is roughly 10-15 times more than in Orissa. Orissa's numerous requests for an IIT and central universities have been ignored by various HRD ministries.

With that backdrop, in 2003, the NDA government had announced the setting up of 4 National Institute of Sciences (NISs) in Pune, Bhubaneswar, Allahbad and Chennai. This included a formal letter from the UGC to Utkal University; an announcement by the then HRD minister; a mention by the President of India in his speech to the UGC on its Golden Jubilee celebration on 28th Dec 2003; and a 45 page detailed project report on NIS (which talks in detail about an NIS in Bhubaneswar) dated May 2004. The current government formed on May 22nd, 2004 seems to have scrapped the earlier decisions and announcements regarding NISs and has decided and announced two IISERs (Indian Institute of Science Education and Research) in Pune and Kolkata. The IISERs have the same objectives as the NISs and are essentially the same as NISs except normal evolution that takes place when time passes or a project moves from one regime to another. Since Kolkata was not on the earlier list of NISs and is in the same region as Bhubaneswar, and often large institutes are spread regionally; essentially the current government has punished Orissa and rewarded West Bengal for inexplicable (political!) reasons despite the fact that their decision makes the already grave regional imbalance in HRD funding even worse. Moreover, it now says that no decision was made by the center regarding establishing an NIS in Bhubaneswar. **The following is a compilation of various documents that show the gross historical neglect by the HRD ministry to Orissa and the subterfuge that has been adopted recently to deprive Orissa of the earlier announced NIS in Bhubaneswar.**

## CONTENTS

### **1. Subterfuge: Announced National Institute of Science in Bhubaneswar renamed and shifted**

- 1.1 The beginning of the National Institute of Sciences proposal**
- 1.2 The current government's version of events after that (a Lok Sabha speech)**
- 1.3 Inconsistency and omissions: Events between 26-11-03 & 22-5-04**
- 1.4 The Detailed Project Report (DPRs) for the announced NISs dated May 2004**
- 1.5 Did the Hon'ble minister mislead or lie in the floor of the parliament?**
- 1.6 Another misleading statement by the Hon'ble minister?**
- 1.7 Are NISs and IISERs different?**
- 1.8 Subterfuge adopted to shift an announced for NIS from Bhubaneswar to Kolkata?**

### **2. Does Bhubaneswar deserve an NIS?**

- 2.1 A case for Bhubaneswar -- Why an NIS or IISER should be established in Bhubaneswar**

### **3. HRD lopsidedness: Orissa ignored, neglected, and shortchanged by the HRD ministry over the years**

- 3.1 State wise distribution of mega centrally funded HRD institutions**
- 3.2 A rough quantitative analysis: comparing HRD funding between WB & Orissa**
- 3.3 What the PM said versus what he did**
- 3.4 The folly continues: unchecked increase in regional imbalance**
  - 3.4.1 Upgrading institutions to IITs and deemed IITs: Why NIT Rourkela was not considered?**
  - 3.4.2 No sense behind the selection of the new IIFT campus**

### **4. Last word: Our humble request**

#### **Appendix**

- A.1 CM's letters to the PM**
  - A.1.1 CM of Orissa Naveen Patnaik's letter to the PM on 23rd Aug 2005**
  - A.1.2 CM Naveen Patnaik's letter to the PM on 29th Sept 2005**
  - A.1.3 CM Naveen Patnaik's letter to the PM on 11th Nov 2005**
- A.2 A sample letter sent by thousands of Oriyas: Open letter to the Prime minister of India -- Gross Injustice done to Orissa**
- A.3 A letter to the planning commission**
- A.4 Indian democracy in work: letters to PM and Planning commission are not answered and not even acknowledged**
- A.5 List of Institutes of national Importance**
- A.6 List of central universities**
- A.7 List of autonomous science and technology institutes**
- A.8 The people and entities whose job is to report or correct the imbalances**
- A.9 The complete "Detailed Project Report" (DPR) document on the NISs.**

## INDEX OF BOXED ITEMS

- Box 1:** A reference to the origin of the statements about 9-4-03 & 23-7-03.
- Box 2:** Full text of the letter from the UGC Chairman to the Utkal VC in July 03.
- Box 3:** Hon'ble minister Pranab Mukherjee's statement in the Lok Sabha on Dec 20, 2003, available at <http://164.100.24.208/ls/lsdeb/ls14/ses6/201205.html>
- Box 4:** Page 2 of PIB article dated 10th December 2003 available at <http://pib.nic.in/archieve/lreleng/lyr2003/rdec2003/10122003/r1012200313.html>
- Box 5A:** Top half of UGC news dated January 2004 and available at [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm)
- Box 5B:** Bottom half of UGC news dated January 2004 and available at [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm)
- Box 6:** UGC web page about President's address
- Box 7:** A part of the President's address on December 28, 2003
- Box 8 :** The reference to the 45 page DPR dated May 2004
- Box 9:** A news item on an affidavit made by under-secy. Kumar in response to a PIL
- Box 10:** News item mentioning MP Basudeb Acharya's statement saying the proposed institutes in Kolkata and Bhubaneswar are different
- Box 11:** A Frontline article dated March 12-25 2005 that refers to the institutes in Pune and Kolkata as National Institute of Sciences.
- Box 12:** An article from Telegraph dated October 4, 2005, where the CM of West Bengal refers to the institute in Kolkata as National Institute of Sciences.
- Box 13:** An article in the Statesman dated 24th Oct 2005, in which the institute in Kolkata is referred to as NIS.
- Box 14:** An article in the Telegraph which describes how Kolkata got into the mix and rose to become a contender.
- Box 15:** An article in the Hindu which mentions SAC-PM Chair's statement on plan for 3 more IISERs in north south and central region and beyond Pune and Kolkata
- Box 16:** State Wise Distribution of Central University (CU), IIT, IIM, IIIT, and IIITM across India
- Box 17:** Zone wise listing of states that are ignored and states that are blessed
- Box 18:** A page of the report of the steering committee on secondary, higher and technical education for the tenth 5 yr plan 2002-2007, Dec 2001 (Full report at [http://planningcommission.nic.in/aboutus/committee/strgrp/stgp\\_scndry.pdf](http://planningcommission.nic.in/aboutus/committee/strgrp/stgp_scndry.pdf))
- Box 19:** A page of the 2004-2005 UGC annual report mentioning total funding amounts for the central universities.
- Box 20:** A page from [http://mospi.nic.in/rti\\_manual11\\_2005.pdf](http://mospi.nic.in/rti_manual11_2005.pdf) on ISI Kolkata
- Box 21:** A page from an article in Rediff that ranks engineering colleges in India.
- Box 22:** An article in Hindu about a new IIFT campus in Kolkata.

## Chapter 1

### Subterfuge: Announced National Institute of Science in Bhubaneswar renamed and shifted

#### 1.1 The beginning of the National Institute of Sciences proposal

**9th April, 2003:** The University Grants Commission (UGC) took a decision to establish four Centres for Studies in Integrated Sciences at Allahabad, Bhubaneswar, Chennai and Pune.

THE MINISTER OF DEFENCE (SHRI PRANAB MUKHERJEE) said the above and the following in the Lok Sabha on December 20th 2005.  
See Box 3 or <http://164.100.24.208/ls/lsdeb/ls14/ses6/201205.html> for his complete statement.

#### **Box 1: A reference to the origin of the statements about 9-4-03 & 23-7-03.**

**23rd July 2003:** Chairman, University Grants Commission had communicated to Vice Chancellor, Utkal University about the establishment of one of the centers at Bhubaneswar vide his D.O.No.F-1-74/2003(CM). The following Box contains the full text of the letter.

From: Arun Nigavekar, Chairman UGC

D.O.No.F.1-74/2003(Cm)

Sub: establishment of National Institute of Sciences: UGC's new initiative in collaboration with other scientific agencies in the Xth Plan

Dear Prof. Nayak,

You may be aware that growing concern has been expressed at various time on various forums about continual decline in standards of education at all levels, particularly at tertiary level, as also on the recent trend of bright boys and girls shying away from science. This trend, over the years, has affected the quality of human power output into our research and development system. The matter is of national concern and is reflected in the speech given by the Hon'ble Minister for Human Resource Development. Professor Murli Manohar Joshi on the occasion of initiation of a Golden Jubilee Year of the UGC. In his inaugural speech Hon'ble Minister observed as under:

*"The undergraduate education in pure sciences is a matter of serious concern. We are going to face shortage of good researchers in a few years time particularly in our premier research institutes in the field of Atomic Energy, Space, Bio-technology, Energy, Oil exploration, Communication and so on. We will have to focus at 10+2 level and "catch them young" for integrated 5 years teaching programme with a possibility of exit after three years".*

Hon'ble Prime minister also, while inaugurating the Golden Jubilee year of the UGC on 28th December, 2002, expressed serious concern on this important issue and suggested creation of such facilities that will fulfil the need of quality human power input into research and development system. The university Grants commission was aware of this scenario and addressed this issue in the Xth Plan document. I am very happy to inform you that the Commission has now decided to establish four centers for studies in Integrative sciences and these centers would be established in the proximity of following four universities:

- (i) East: At Bhubaneswar in the proximity of Utkal University.
- (ii) West: At Pune in the proximity of University of Pune.
- (iii) North: At Allahbad in the proximity of Allahbad University.
- (iv) South: At Chennai in the proximity of Anna University.

These centers would be called as National Institute of Sciences(NISc) and would have a budget of Rs 50 crores each spread over five years. The provision of Rs 100 crores has been done for this activity in the Xth Plan and UGC has approached the Planning Commission for making provision of additional Rs 100 crores for the project in the period of Xth Plan. Hence, presently each of the NISc would be provided with Rs.25 crores each.

The commission has also appointed a High powered committee to bring these NISc into operation. The members of the high power committee are:

1. Prof. V. G. Bhide Convenor Former Vice-Chancellor University of Pune
2. Prof. S. K. Joshi Member Commission, UGC
3. Prof. Ashok Kumar Gupta Member Commission, UGC
4. Prof. N. Mukunda Indian Institute of Science, Bangalore
5. Prof. D. Balasubramanian Former Director Center for Cellular and Molecular Biology, Hyderabad

The task for the high power committee is to prepare Memorandum of Association and Rules of NISc and I am enclosing with this letter a draft MOA as prepared by this committee for NISc for your perusal.

The NISc would be established as autonomous institutions under clause 12(ccc) of the University Grants Commission Act in close association and collaboration with various science agencies like CSIR, DST, DAE, ISRO and DBT. It is anticipated that Utkal University would recognize the NISc as an autonomous institution and would provide full academic, administrative and financial freedom for operational purpose. The students coming out from the NISc would get appropriate degree of your university. It is also anticipated that NISc being a national organization would have a close academic linkage with the neighbouring university, research and development laboratories as well as national laboratories and prestigious research institutions and also other universities in the country. It will also have link with the industries. NISc would also have academic links with universities and R & D institutions outside the country.

We hope that NISc at your university becomes a major teaching learning and research center in basic sciences in times to come. As such the university may have to provide a land of about 50 acres for establishment of NISc. As mentioned earlier University Grants Commission would be providing full financial support for the establishment of NISc and would also continue to support each of the NISc under plan funds even in the future.

You may agree that this is one of the very important initiatives that has been taken by the University Grants Commission in recent years with emphasis on catching the best of the minds for launching them in research and development field in science and technology. I am sending this letter to keep you informed about this new initiative and also with a request to initiate at appropriate level the decision making process for acceptance of NISc as an autonomous degree conferring institution and providing administrative as well as logistic support for the establishment of the NISc. I may also suggest that you could call a meeting of all heads of local educational and R & D institutions/laboratories and brief them about this development. Their participation in formation and running of institute is very crucial for the success of NISc.

I look forward for a positive response at your end on this new initiative of UGC.

with kind regards  
yours sincerely  
Arun Nigavekar

Enc: As above  
Prof. Pandav Nayak, Vice Chancellor, Utkal University, Vani Vihar, Bhubaneswar -751004

## **Box 2: Full text of the letter from the UGC Chairman to the Utkal VC in July 03.**

## 1.2 The current government's version of events after that (Lok Sabha speech)

Ministry of HRD vide its letter dated 9th June 2003 had raised a query, whether UGC is legally empowered to set up such educational Centres under Section 12 (ccc) of the UGC Act. The matter was further examined in detail in the Ministry of HRD in consultation with the Ministry of Law. The Ministry of Law categorically opined that the UGC cannot establish the proposed Centres for Studies in Integrated Sciences under Sections 12 (ccc) or under 12 (j) of the UGC Act. The UGC was accordingly informed by the Ministry vide its letter dated October 28, 2003.

Re: The reported decision of the Government to change the location of the proposed National Institute of Science from Bhubaneswar to Kolkata

THE MINISTER OF DEFENCE (SHRI PRANAB MUKHERJEE): A couple of days ago, Hon'ble Member of Parliament Shri B. K. Tripathi and some other Hon'ble Members representing the State of Orissa wanted to know whether the Government has decided to change the location of National Institute of Science from Bhubaneswar to Kolkata. I assured the Hon'ble Members that after ascertaining the facts I shall come to the House and inform the Members.

The facts are - On 9th April, 2003, the University Grants Commission (UGC) has taken a decision to establish four Centres for Studies in Integrated Sciences at Allahabad, Bhubaneswar, Chennai and Pune. These Centre were proposed to be established under Section 12 (ccc) of the UGC Act. Vide this Section of the UGC Act, University Grants Commission is empowered to establish, in accordance with the regulation made under the UGC Act, institutions, for providing common facilities, services and programmes for a group of Universities or for the Universities in general. Ministry of HRD vide its letter dated 9th June 2003 had raised a query, whether UGC is legally empowered to set up such educational Centres under Section 12 (ccc) of the UGC Act. The matter was further examined in detail in the Ministry of HRD in consultation with the Ministry of Law. The Ministry of Law categorically opined that the UGC cannot establish the proposed Centres for Studies in Integrated Sciences under Sections 12 (ccc) or under 12 (j) of the UGC Act. The UGC was accordingly informed by the Ministry vide its letter dated October 28, 2003. As such, the UGC's proposal to establish four Centres for Studies in Integrated Sciences under Sections 12 (ccc) or under 12(j) of the UGC Act at Allahabad, Bhubaneswar, Chennai and Pune could not materialize.

The Government of India has at no time approved setting up of Institutes, as proposed by the UGC. The Chairman, UGC thereafter informed the Government vide his letter dated November 26, 2003 that the UGC would like to facilitate setting up these institutions as fully autonomous institutions under the universities in which these institutions are to be established. Even this proposal was never agreed to by the Government.

### **Box 3: Hon'ble minister Pranab Mukherjee's statement in the Lok Sabha on Dec 20, 2003, available at <http://164.100.24.208/ls/lsdeb/ls14/ses6/201205.html>**

As such, the UGC's proposal to establish four Centres for Studies in Integrated Sciences under Sections 12 (ccc) or under 12(j) of the UGC Act at Allahabad, Bhubaneswar, Chennai and Pune could not materialize.

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### 1.3 Inconsistency and omissions: Events between 26-11-03 & 22-5-04

The last statement is not quite consistent with the events that happened (and was not mentioned by the honorable minister) between 26<sup>th</sup> November 2003 and May 22<sup>nd</sup> 2004, when the new UPA government was formed. Here are some documents and quotes from that shed light on the developments in that period and that counter the Hon'ble minister's statement in the last page.

The meeting was also informed of the steps initiated to improve the quality of teaching and research. It was informed that at post-graduate level a credit-based, modular approach is being introduced. UGC has recently upgraded monetary support at individual, group and department levels and has opened for colleges such incentive schemes as were earlier confined to universities. While five universities were identified this year, with potential for excellence, viz. Chennai, Hyderabad, Jadhavpur, Pune and Jawaharlal Nehru Open University, five more universities will be identified next year to promote excellence among universities especially in matters of research. Four national-level institutes are also being established at Bhubaneswar, Chennai, Pune and Allahabad.

It was informed that UGC has started monitoring the health of universities using parameters for academic performance, research performance and governance. It intends to provide incentives to universities and colleges scoring high on these parameters.

Stressing that despite many recent initiatives, the quality of research still remains a matter of concern, Dr. Joshi asked UGC to promote scientific excellence in teaching institutions at a fast pace. While welcoming the exchange of students among countries, he said that if the quality of teaching and research in Indian universities is brought to top global standards, such exchanges of students would be economically beneficial to the country.

Dr. Joshi also expressed concern at the low interest shown by students in basic sciences. Arguing that today's technologies are the outcome of fundamental research undertaken in the past, Dr. Joshi called upon UGC to see how students' interest in basic sciences could be rejuvenated. He informed that the Government has decided to observe 2004 as the year of scientific awareness and a *vigyan rail*, i.e. science exhibition on wheels, is being flagged off by the Prime Minister next week.

In the presentation for the Members of Parliament, it was informed that a large number of private universities have come up in the recent past, especially in Chhattisgarh. Members expressed concern over mushrooming of institutions of learning without requisite infrastructure and faculty. UGC informed the Members that it has recently issued regulations for establishment and maintenance of private universities and the Council has asked the private universities already established to comply with the regulations within three months failing which their degrees would be de-recognised.

Dr. Joshi also emphasised the need for promotion of sports in universities. He also agreed with the members that the working of UGC needs to be reviewed in the present context and informed that an amendment to the UGC Act is being drafted to give more teeth to the Council to enable it to usher in reforms in the higher education sector.

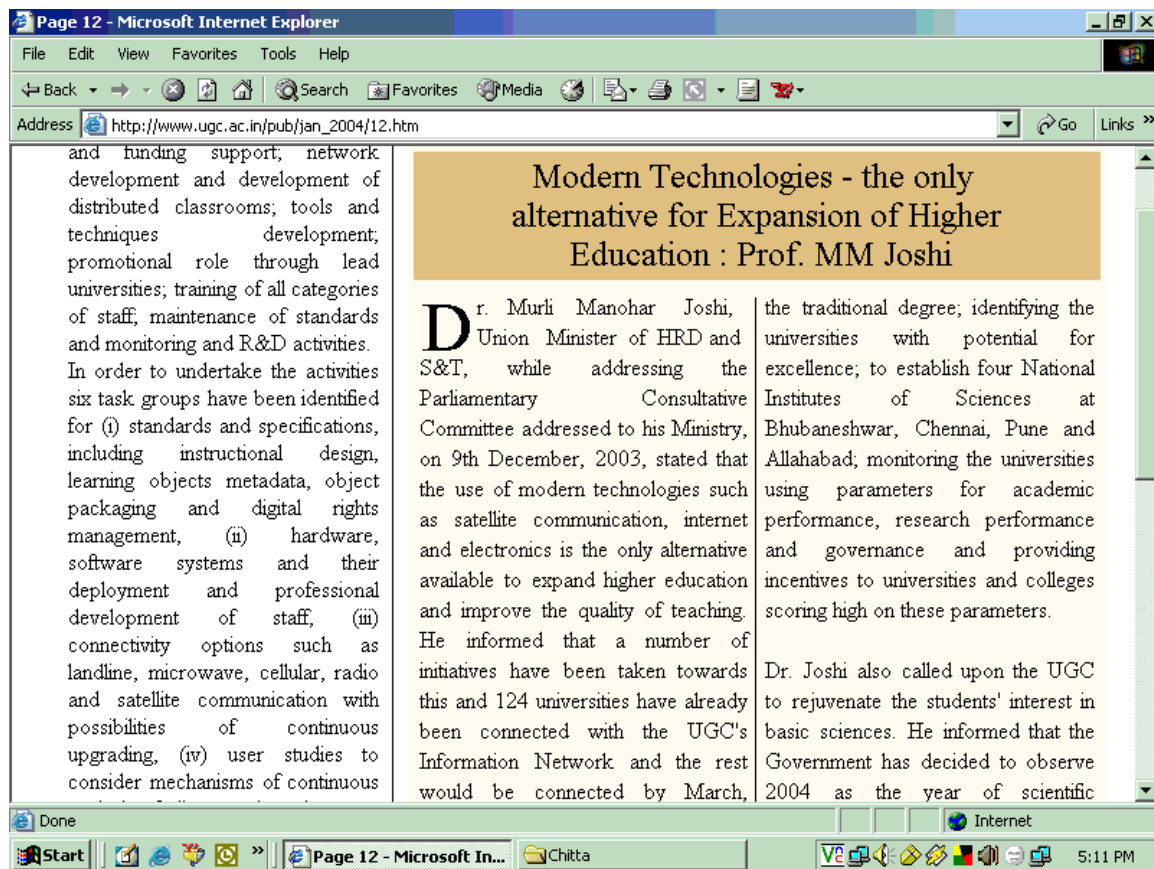
The following members were present from Lok Sabha : S/Shri/ Ms. Sharad Pawar, Savshibhai Makwana, Dr. Beatrix D'Souza, Vinay Kumar Sorake Ananta Nayak and Ramseth Thakur. The members present from Rajya Sabha were: S/Shri/Ms. Savita Sharda, Chandra Kala Pandey, Dr. A.K. Patel, Dr. Kumkum Rai, Dr. Faguni Ram, K. Rahman Khan, Jayantilal S. Barot and Dr. Bimal Jalan.

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**Box 4: Page 2 of PIB article dated 10th December 2003 available at**  
<http://pib.nic.in/archieve/lreng/lyr2003/rdec2003/10122003/r1012200313.html>

In the Ministry of Human Resource Development and Science & Technology's Press release, dated 10th December, 2003 at <http://pib.nic.in/archieve/lreng/lyr2003/rdec2003/10122003/r1012200313.html> and titled INFORMATION COMMUNICATION TECHNOLOGY TO BE USED IN A BIG WAY FOR EXPANSION OF HIGHER EDUCATION: DR JOSHI UNIVERSITIES ASKED TO COMPLY WITH UGC REGULATIONS WITHIN THREE MONTHS CONSULTATIVE COMMITTEE OF HRD MINISTRY MEETS we have the following:

“... The meeting was also informed of the steps initiated to improve the quality of teaching and research. It was informed that at post-graduate level a credit-based, modular approach is being introduced. UGC has recently upgraded monetary support at individual, group and department levels and has opened for colleges such incentive schemes as were earlier confined to universities. While five universities were identified this year, with potential for excellence, viz. Chennai, Hyderabad, Jadhavpur, Pune and Jawaharlal Nehru Open University, five more universities will be identified next year to promote excellence among universities especially in matters of research. Four national-level institutes are also being established at Bhubaneshwar, Chennai, Pune and Allahabad. ...”



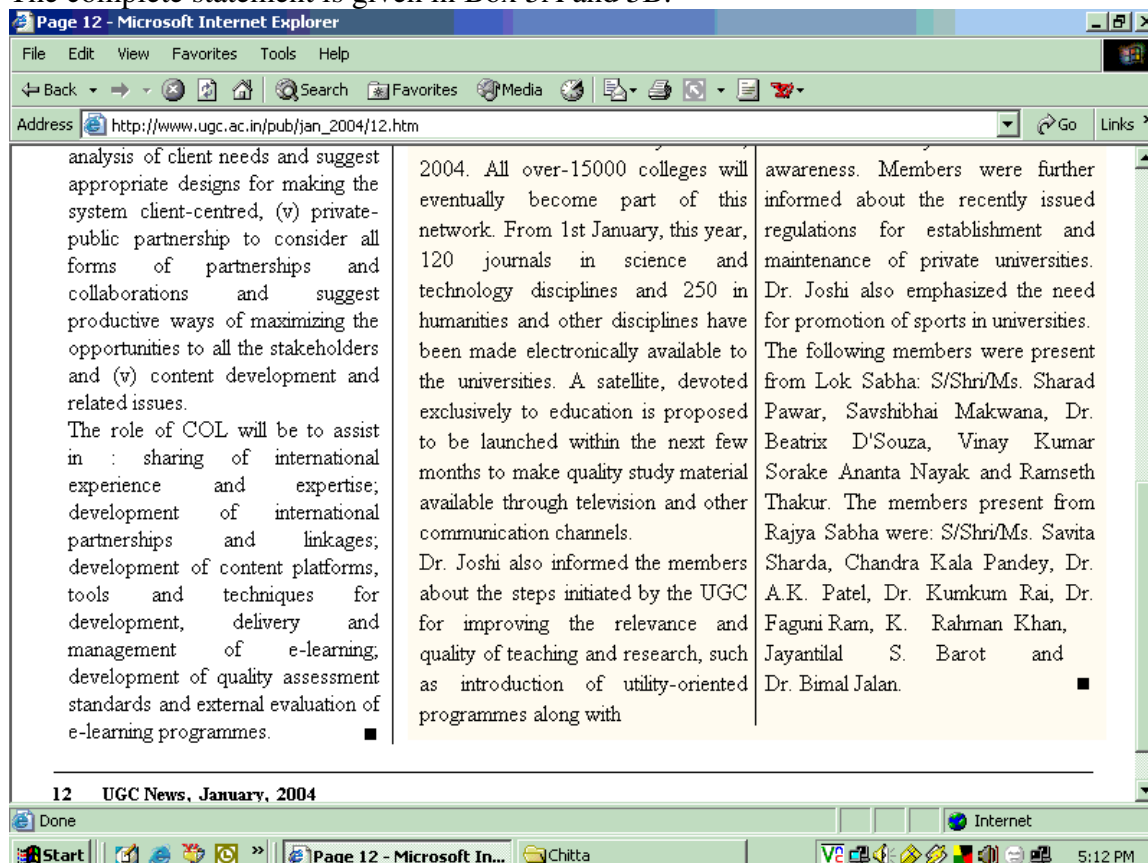
**Box 5A: Top half of UGC news dated January 2004 and available at [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm)**

Now let us consider the document titled “Modern Technologies - the only alternative for Expansion of Higher Education” which is at [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm) . It is about Prof. MM Joshi(the then HRD minister of India)'s address on 9th December 2003 and includes the following:



“Dr. Joshi also informed the members about the steps initiated by the UGC for improving the relevance and quality of teaching and research, such as introduction of utility-oriented programmes along with the traditional degree; identifying the universities with potential for excellence; to establish four National Institutes of Sciences at Bhubaneswar, Chennai, Pune and Allahabad; monitoring the universities using parameters for academic performance, research performance and governance and providing incentives to universities and colleges scoring high on these parameters.”

The complete statement is given in Box 5A and 5B.



**Box 5B: Bottom half of UGC news dated January 2004 and available at [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm)**

Box 6 in the next page contains the complete text of the URL [http://www.ugc.ac.in/new\\_initiatives/newnis.html](http://www.ugc.ac.in/new_initiatives/newnis.html) under the heading “Setting up new NISc,” and is self explanatory. It contains the following text:

India has an opportunity to become the global R & D Hub. For this, the most important intervention would be to selectively and preferentially raise the standards of science education for a small section of bright students taking up science because overall status of science education suffer from severe handicaps. This is essential not only to meet the requirement high quality people in science to man and lead out national lab system and mission oriented agencies that is likely to face crisis in coming years due to large number of senior people retiring, but also to move up the value chain in global R & D services, where India is favourably positioned. This would also provide a new Model of Science Education in the Country. **Therefore, it is proposed that a number of new science institutes (to begin with four) may be set-up at different places in the country to be the Centres of Excellence in Science Education. These institutes would occupy prime position in the area of science education as IITs and IIMs occupy for technology and management education in the global setting today.**

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  - Performance Radars
  - P I H E A D
  - Setting up new N I Sc
  - H E Information System
  - Promotion of K B E - I H L

### Setting up New NISc

#### National Institutes of Sciences

India has an opportunity to become the global R & D Hub. For this, the most important intervention would be to selectively and preferentially raise the standards of science education for a small section of bright students taking up science because overall status of science education suffer from severe handicaps. This is essential not only to meet the requirement high quality people in science to man and lead out national lab system and mission oriented agencies that is likely to face crisis in coming years due to large number of senior people retiring, but also to move up the value chain in global R & D services, where India is favourably positioned. This would also provide a new Model of Science Education in the Country. Therefore, it is proposed that a number of new science institutes (to begin with four) may be set-up at different places in the country to be the Centres of Excellence in Science Education. These institutes would occupy prime position in the area of science education as IITs and IIMs occupy for technology and management education in the global setting today.

These institutes would be established at Allahabad near Allahabad University, at Chennai near Anna University, at Pune near Pune University and at Bhubaneswar near Utkal University. They would primarily offer integrated five-year basic and applied science education programme, leading to a Masters Degree and would have linkages with National research labs science agencies and industry right from their inception. With a view to ensure that these Institutes come up fast, these will be incubated as a part of the existing premier universities. Though, these Institutes would be, for all purposes, autonomous institutions of the Link Universities with full academic, administrative and financial autonomy. Although the link university will award educational and research degrees to the scholars and students of this Institute in the initial phase, these Institutes will have complete and total freedom to lay down their courses, frame suitable course structure, method of teaching and evaluation. This organic link with the Link universities would be very crucial in the initial phases. Established Universities would help to nurture the Institute till they mature to be on their own.

Formal announcement for setting up of these Institutes was made by HE President of India on December 28, 2003 on occasion of the concluding ceremony of the Golden Jubilee of the UGC. Academic, administrative and financial details have been worked out and the proposal is in the approval process.

[See Also Detailed Project Report. \(pdf\)](#)

**Any enquiries or suggestions** on this initiative may be addressed to In-charge, New Initiatives & FA (UGC), University Grants Commission (UGC), Bahadur Shah, Zafar Marg, New Delhi -110002. You can reach him at [pagarwal@ugc.ac.in](mailto:pagarwal@ugc.ac.in)

[http://www.ugc.ac.in/new\\_initiatives/newnis.html](http://www.ugc.ac.in/new_initiatives/newnis.html)

1/4/2006

### Box 6: UGC web page about President's address

**These institutes would be established at Allahabad near Allahabad University, at Chennai near Anna University, at Pune near Pune University and at Bhubaneswar near Utkal University.** They would primarily offer integrated five-year basic and applied science education programme, leading to a Masters Degree and would have linkages with National research labs science agencies and industry right from their inception. With a view to ensure that these Institutes come up fast, these will be incubated as a part of the existing premier universities. Though, these Institutes would be, for all purposes, autonomous institutions of the Link Universities with full academic, administrative and financial autonomy. Although the link university will award educational and research degrees to the scholars and students of this Institute in the initial phase, these Institutes will have complete and total freedom to lay down their courses, frame suitable course structure, method of teaching and evaluation. This organic link with the Link universities would be

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Special attention should be paid to the last but one sentence. For further corroboration of the above we now reproduce a part of the President's address on December 28, 2003.

#### Present Status of Higher Education System

Number of schemes have been launched by UGC for the development of the Universities and Colleges, provide access of education to all the section of the society equitably, especially for the under privileged and differently abled persons. I understand that UGC has also launched career oriented courses at the academic staff colleges. To meet the challenges in education and in global society, UGC has evolved a scheme of granting potential for excellence status to selected universities. It is good UGC is creating four National Institute of Science at Chennai, Pune, Allahabad and Bhubaneshwar for promoting excellence in Science Education in collaboration with CSIR, DBT, ISRO, DAE, DST, DRDO and Department of Oceanography. Generating the sustained interest in the scientific discipline, will need continuity in provision of employment.

#### **Box 7: A part of the President's address on December 28, 2003**

#### **1.4 The Detailed Project Report (DPRs) for the announced NISs dated May 2004**

We now move to a document, a detailed project report (DPR) on the National Institute of Sciences, that is dated May 2004. Note that the current UPA government took office on May 22<sup>nd</sup> 2004. This means that the DPR was active during the last days of the NDA government and thus it implies that even at that time the NDA government was going ahead with its plan of establishing the four National Institutes of Sciences.

The executive summary of this document is as follows:

##### *Executive Summary*

*In the emerging global scenario, the competitive advantage of a Nation is determined by its scientific capability and technological competence. While Science is universal and freely available, Technology is private, a preserve of one who develops it and has a price tag to it. Its transfer is becoming increasingly difficult and each Country has to make substantial investments to continue to reap its benefits.*

*India has one of the finest R & D infrastructures in the World. Our National Labs, Research Institutes and Science Agencies have weaved a number of success stories. India has inherent advantage in the R & D sector because of availability of trained manpower at low-costs. This makes the outlook for R & D services in India positive and provides the country new opportunities in this knowledge led sector. Yet there are weaknesses. The gap in research productivity, between India and the developed countries, is continuously widening as per an assessment of R & D capabilities across the nations published in Nature recently. Large number of scientists in our R & D institutions are retiring in the*

*coming years. Their replacements are difficult to find. There is a wane in the interest of young people in science for their future careers. Therefore, we are not able to attract bright young people for science education. Although, India has potential to become a Global R & D Hub, but for that, we need to address the challenges that science education today faces, on a priority basis.*

*Science Education plays a crucial role in advancement of scientific R & D that is essential to move us further on the road to a Knowledge Society. Advantages of low-cost manpower in India, complements the large Talent Pool for the R & D Sector. However, our education system has to continue to feed to this talent pool to give us sustainable competitive advantage. There are several concerns in this regard. Standards of science education are continually declining. Our bright boys and girls are shying away from science after 10+2 stage. Though science and technology have come close to each other and all emerging technologies are all essentially science based, we do not provide composite science and technology education in our institutions. Our competitive advantage in the R & D sector may be lost unless we ensure that the country produces, on a continuing basis an adequate number of competent and motivated young boys and girls who would man and lead our National Labs / Science Agencies, Knowledge-based Industry and provide a composite model of science education that would attract bright students to science.*

*Task of improving overall science education is stupendous. A uniform approach is neither feasible nor desirable. Interventions required should therefore be contingent to the situation. An important intervention is to selectively raise the standard of science education for a select group of bright students through a new model of science education that is both exciting and rewarding.*

*For this purpose, it is proposed that a number of new science Institutes need to be set-up at different places in the country to be the Centres of Excellence in Science Education. These Institutes would be designed to occupy, in the near future, prestigious position in the global setting for science education as IITs and IIMs presently occupy for engineering and management education. These Institutes would attract the brightest science students from all over the Country.*

*Realizing the importance of the above initiative, scheme for support for setting up of National Institutes for Sciences in the Country has been included in the UGC's 10th Plan Outlay. Initially four (4) National Institutes of Sciences shall be established in the proximity of the prestigious universities in the four regions of the Country. These institutes would be established at Allahabad near Allahabad University, at Chennai near Anna University, at Pune near Pune University and at Bhuvaneshwar near Utkal University. They would primarily offer integrated five-year basic and applied science education programme, leading to a Masters Degree and would have linkages with National research labs science agencies and industry right from their inception.*

*These institutions shall be fully autonomous and have flexible and responsive academic structures. The Institutes would offer a large menu of courses from which students can*

*choose depending upon their liking and aptitude. The integration will be sought to be achieved in terms of time and discipline, undergraduate and post graduate education, education and exploration, learning and research, pure and applied sciences. Unique feature of the academic programme of these Institutes would be its internship programme in the last semester spilling over to the adjoining summer vacation.*

*The Institutes would attract the brightest science students from all over the country. Faculty positions shall also be filled up from amongst the brightest in the Country. Faculty would be either core (tenure) faculty, on joint appointments with R&D institutions in the neighborhood, Visiting Scientists both from India and abroad and Adjunct Faculty from the Industry. In addition, Science Agencies and Industry shall be encouraged to institute Chairs in frontier areas of science through endowments.*

*Total student population at any time will be around 1000 in various academic programmes with around 200 Research Fellows / Post Doctoral Students in each Institute. Core faculty will be around 100 for each Institute. In addition, at any given point of time there would be around 100 faculty members in the form of joint appointees, visiting and adjunct professors. Non-academic staff will be limited to the barest minimum. All necessary support services will be provided on contract basis through reputed agencies.*

*Campus of the Institute shall have lecture room complex, experimental laboratories, R & D laboratories, Information Resource Centre cum Library, Administrative and Residential facilities. Cost-estimates for buildings and services work to Rs. 3705 lakh per Institute over the next three years. Cost of equipment would be Rs. 2600 lakh for the first three years. Ultimately, equipment worth nearly Rs. 7000 lakh may be required. Possibility of getting additional support from the national laboratories, science agencies and industry for setting up labs shall also be explored. Recurring cost is estimated as Rs. 1100 lakh during the next three years. The science agencies of the Govt. and Industry are expected to assist by creating endowment chairs, equipping laboratories and by sponsoring research development projects.*

*Strategically, these Institutes would be driven by the national research laboratories, science agencies and Industry acting in concert. The Institutes will have full academic autonomy and flexibility and will be structured to quickly respond to changes while being stable, innovative and efficient. The management structure of the Institutes shall provide for autonomy, flexibility, quick decision-making and efficiency in its academic functioning and in the use of resources, with both internal and external accountability. These Institutes shall be set up as Autonomous Societies under the Society Registration Act. Initially, they will be autonomous institutes of the link universities with link universities granting educational and research degrees but the Institutes will be fully free to set up their own courses of studies, system of teaching and evaluation, etc.*

*Total investment in each Institute would be Rs. 74.5 crores during the Tenth Five Year Plan. Both recurring and nonrecurring expenditure would be supplemented by project funding, consultancy, etc. Eventually, these Institutes would be brought under the*

*formula based funding arrangement with outcome focus. As per the operational plan, these Institutes would enroll the first batch of students from July 2005.*

*These Institutes would not only meet requirement of high quality well trained young boys and girls to man and lead our national laboratory system and mission oriented agencies but also help the Country to move up the value chain in the global R & D sector, where India is favorably positioned. In addition, these Institutes would provide a new model for composite science education that is both exciting and rewarding and help in restoring the interest of the young people in science education and opting for science as a career.*

*It is strongly believed that discovery itself is the greatest and the most effective form of teaching, and that teaching and learning are viewed as an adventure in discovery. These Institutes will thus lay stress on acquisition of knowledge and on the ability to use that knowledge to solve academic and societal problems. Therefore, these Institutes would not only provide exciting academic programmes, but also promote first-rate R & D in frontier areas of science under one roof. In order to foster a spirit of innovation, these institutes shall forge strong and productive interfaces with national research laboratories, science agencies and industry.*

In fact page 14 of the above document says:

*Realizing the importance and the urgent need for setting up such National Institutes of Sciences, this proposal has been approved as a part of the UGC's 10th Five Year Plan. Recently, it was recommended that such Centres could be more appropriately called as National Institutes of Sciences. To work out academic, administrative and financial details, a High Powered Committee was set up by the UGC in early 2003. Composition of the committee is given at Appendix I. The commission also gave its in-principle approval to this proposal on April 9, 2004.*

### **1.5 Did the Hon'ble minister mislead or lie in the floor of the parliament?**

The above quote raises the question that if what the Hon'ble minister in the last sentences of Box 3 says

*The Chairman, UGC thereafter informed the Government vide his letter dated November 26, 2003 that the UGC would like to facilitate setting up these institutions as fully autonomous institutions under the universities in which these institutions are to be established. Even this proposal was never agreed to by the Government.*

is true then how come the DPR says that the UGC gave its in-principle approval to this proposal on April 9, 2004. **Is the UGC part of the government or not?**

Thus the Honorable minister's statement in the Lok Sabha is misleading. It is unfortunate that the Honorable minister does not consider an announcement (Box 5) by the earlier HRD minister and by the President of India (Box 6 and Box 7) about establishment of an NIS in Bhubaneswar, and an in-principle approval of UGC on April 9, 2004, a decision of the central government. Moreover, if the NDA government had not decided to set up

the institutes, why would they have produced a detailed project report (Box 8A-8D) dated May 2004, around the time when their term ended and the UPA government took over. Finally, even if the UGC could not legally establish the proposed NISs, they could have been established under a different parameter, the same one used for the IISERs, which happen to be almost same as the NISs in terms of their aims.

During establishment of institutes of the scale of an NIS or an IISER legal opinions of various kinds are often sought and appropriate changes are made. If one follows the time line, the legal opinion regarding the inappropriateness of using Sections 12 (ccc) or under 12 (j) of the UGC Act was given in October 28, 2003. The Chairman, UGC informed the Government vide his letter dated November 26, 2003 that the UGC would like to facilitate setting up these institutions as fully autonomous institutions under the universities in which these institutions are to be established. In December 2003 the HRD minister and the President announced the setting up of NISs. In May 2004, a DPR about the NISs without any mention of the Sections 12 (ccc) or 12 (j) of the UGC Act and with complete details about the institute was published. This DPR mentions that on April 9 2004, the UGC gave its in principle approval to the NIS proposal. Thus it is clear that:

The explanation given by the Hon'ble minister in the Lok Sabha is misleading and borders on violating the sanctity of presenting the truth in the Parliament: The UGC is part of the government. Its in-principle approval of the NIS proposal is an in-principle approval by the government.

Moreover, under what logic the UPA government decided to set up IISERs in Pune and Kolkata, in states that already have IITs, central universities and autonomous science and technology institutions, and scrap an NIS in Bhubaneswar which is in a state with very little HRD funded institutions and has no institution of national importance (IIT, IIM, ISI, etc.) and no central universities. This is especially puzzling when the planning commission and the PM himself have rued the imbalance in higher educational institutions among various states. Scrapping the NISs and the decision on the IISER locations aggravate the imbalance of HRD ministry's funding for higher education and technical education. A rough calculation shows that at present West Bengal has 10-15 times the funding under the above mentioned heading as Orissa and the ratio will be 15-20 times if the UPA government's decision to punish Orissa (UP and TN) and reward West Bengal (and Maharashtra) stands.

This 45 page detailed project report dated May 2004 is available at [http://www.ugc.ac.in/new\\_initiatives/newnis.html](http://www.ugc.ac.in/new_initiatives/newnis.html) and is also included at the end of this document.

### **Box 8 : The reference to the 45 page DPR dated May 2004**





# The Telegraph

calcutta, india

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Today's Edition

| Wednesday, November 30, 2005 |

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[Business](#) [Stocks Live](#)  
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## Science centre plot thickens

OUR CORRESPONDENT

Bhubaneswar, Nov. 29: The tussle between Orissa and the Centre over the proposed national institute of science (NIS) has intensified with the Union human resource development ministry claiming that it never took a policy decision to set up the institute in Bhubaneswar.

The court has filed a counter-affidavit in Orissa High Court in this regard.

Reacting to the UPA government's move, chief minister Naveen Patnaik said: "I am very disappointed with the action of the Centre. I had written three letters to the Prime Minister on the issue and even discussed it with the HRD ministry. We will file a fresh affidavit in the court."

In the affidavit, under-secretary in the HRD ministry Prem Kumar argued that in 2002, the University Grants Commission had proposed to set up centres for advanced science education.

In March this year, the scientific advisory council to the Prime Minister, too, suggested that two such institutes be set up.

Taking cognisance of the suggestions, the Union cabinet decided to set up two science institutes in Pune and Calcutta at Rs 500 crore each. "There was never a policy decision and Orissa was nowhere in the picture," Kumar has claimed in the affidavit, adding that the issue has assumed political significance.

On November 8, the high court had stayed the UPA government's decision to shift the proposed NIS from Bhubaneswar to Calcutta. "We direct a stay on the shifting of the NIS from Bhubaneswar to any other place in the eastern region," the high court had said in response to a PIL filed by Prasanta Kumar Das of the State Public Interest Protection Council.

Machusudan Panda, who is fighting the case on behalf of Das described the counter-affidavit as a "lie" and threatened to file a criminal case against the under-secretary.

"The NDA government had promised to set up the institute in Bhubaneswar and requested the state government to provide land for the purpose. The state has already allotted 75 acres in Bhubaneswar," a state official said.

In December 2003, senior BJP leader and HRD minister in the then NDA government, Murlidhar Joshi, had announced that national institutes of science would come up in the cities of Bhubaneswar, Pune, Chennai and Allahabad.

An all-party Assembly committee, which was formed recently, will meet Prime Minister Manmohan Singh soon to air their grievances on the matter.

Last Thursday, BJP and BJD MPs from Orissa had sat on a dharna on the Parliament premises to protest against the Centre's move.

[http://www.telegraphindia.com/1051130/asp/jamshedpur/story\\_5530182.asp](http://www.telegraphindia.com/1051130/asp/jamshedpur/story_5530182.asp)

1/3/2006

### Box 9: A news item on an affidavit made by under-secy. Kumar in response to a PIL

#### 1.6 Another misleading statement by the Hon'ble minister?

Coming back to the Hon'ble minister's statement in the Lok Sabha as presented in Box 3, it says:

*The Scientific Advisory Council to the Prime Minister in its meeting held on 4th March 2005, New Delhi under the Chairmanship of Prof. C.N.R. Rao recommended creation of two new institutes devoted to science education and research and also recommended that they may be located at Pune and Kolkata. It was at the recommendation of the SAC-PM*



*that the process of setting up of these two institutes at Pune and Kolkata was initiated by Ministry of Human Resource Development.*

The above says that the SAC-PM recommended the locations Pune and Kolkata. This is not consistent with the reported affidavit in Box 9. There it is said that the

*... SAC-PM, too suggested that two such institutes be set up. Taking cognizance of the suggestions, the union cabinet decided to set up two science institutes in Pune and Calcutta at Rs 500 crores each.*

The affidavit is consistent with the statements of a few SAC-PM members who have privately mentioned that they did not recommend the locations, they only recommended that two IISERs be set up. Thus the following questions arise:

1. Did the SAC-PM recommend the two sites or was the two sites chosen by their political masters?

2. Did the Hon'ble minister say the truth when he said that the SAC-PM recommended the locations Pune and Kolkata?

### **1.7 Are NISs and IISERs different?**

Now let us move to the topic regarding whether the IISERs are different from the NISs, as some have argued that scrapping NISs and making the IISERs does not imply any shifting of institutes from Bhubaneswar to Kolkata.

First we will compare the NISs with the IISERs, based on the DPR of NISs which is available in the UGC website and various articles about the IISERs as we could not find a DPR for the IISERs. In particular we use the following documents for our comparison.

[1] [http://www.ugc.ac.in/new\\_initiatives/dpr\\_nis.pdf](http://www.ugc.ac.in/new_initiatives/dpr_nis.pdf) (NIS)

[2] [http://www.rxpgnews.com/medicalnews/healthcare/india/article\\_2713.shtml](http://www.rxpgnews.com/medicalnews/healthcare/india/article_2713.shtml) (IISER)

[3] [http://www.telegraphindia.com/1051029/asp/calcutta/story\\_5412063.asp](http://www.telegraphindia.com/1051029/asp/calcutta/story_5412063.asp) (IISER)

### **1. The motivation behind both institutes is the lack of quality science institutes in the country, where under graduate courses are offered.**

*NIS: [1] (section 3.2)*

.....There is no exclusive institute, excepting Indian Institute of Science at Bangalore for science education. Even **IISc, Bangalore** offers post B.Sc. programmes. As a result, meritorious students who take science at the 10+2 level tend to opt for professional programmes, at the first-degree level.....

*IISER : [2] RxPG news*

.....It may be mentioned that at present the only Science Institute in the country is the **Indian Institute of Science, Bangalore** which is fully funded by the Ministry of Human Resource Development. This Institute does not have an under-graduate stream and it caters to only post-graduate education and research.....

## 2. Both strive to be like IIT and IIM but in the field of sciences.

### **NIS: [1] executive summary page 3**

.....it is proposed that a number of new science Institutes need to be set-up at different places in the country to be the Centres of Excellence in Science Education. These Institutes would be designed to occupy, in the near future, prestigious position in the global setting for science education as **IITs and IIMs** presently occupy for engineering and management education. These Institutes would attract the brightest science students from all over the Country.....

### **IISER: [3] Telegraph, Kolkata, Oct 29**

.....The Indian Institute of Science Education and Research, which got the final clearance of the Union cabinet on Thursday, will function as a counterpoint to the **IITs and IIMs**. Expected to be commissioned on a small scale next year, the institute will offer advanced, inter-disciplinary studies in science.....

## 3. Both mention Interdisciplinary studies.

### **NIS: [1] Mission of NIS (section 5.1)**

.....The Mission of these National Institutes of Sciences is to be Global Centres of Excellence for education in basic and applied sciences, research in pure and applied sciences and also cutting edge technology development in **interdisciplinary areas** of importance to the country.....

### **And (section 6.1)**

The proposed institutes should serve as **interdisciplinary institutions** for education and research in the areas

### **IISER: [3] Telegraph Oct 29**

...Science on revival route- New centre to offer integrated, **inter-disciplinary studies**...

## 4. Integrated programme after 10+2 level is the target of both institutes:

### **NIS: [1] section (3.3)**

..... We have to catch them young for five year **integrated programme** with a possibility of exit after three years'.....

### **IISER [3] (from Telegraph Oct 29)**

.....After passing Class XII, students can study under an **integrated programme** at the proposed institute.....

## **5. Both institute aim for research based education:**

**NIS: [1] (section 8.10)**

.....so that students, right from the day one, can participate in creative endeavors in research laboratories and study in exciting and creative atmosphere. Creative research atmosphere is an essential part of a good educational institution as discovery itself is the greatest and the most effective form of teaching and teaching and learning are viewed as an adventure in discovery.....

...We have to catch them young for five year **integrated programme** with a possibility of exit after three years'.....

**IISER**

.....'The concept is new, as students will be exposed to research-based education from a very young age..... [3] (from telegraph Oct 29)

....to set up high caliber institutes in which science teaching and education will be totally integrated with the state-of-the-art research...[2] (from RXPg news oct 25)

## **6. Both institutes planned for faculty and resource sharing with other institutes**

**NIS: [1] page.13 point (e)**

.....to involve national research laboratories, science agencies and the corporate sector in pure and applied science education.....

**[1] Section 9.3**

.....The Core Faculty shall be supplemented by (a) Joint Appointees holding appointments in the nearby reputed National R & D Institutes and the Link university, (b) Visiting Faculty drawn specifically from reputed research institutions in the country and abroad (c) Adjunct faculty drawn from Industry. Ratio of core faculty to the other faculty is likely to in the ratio of 60:40.....

**[1] Section 8.20**

.....Accordingly, the Institute shall benefit both from UGC InfoNet and the Indian Digital Library in Engineering Science and Technology (INDEST) Consortium right from its inception.....

**IISER [3] (from telegraph Oct 29)**

.....other significant concept of the proposed IISER is to actively forge strong relationship with the existing universities and colleges and network laboratories and

institutions, in order to share and complement faculty resources as well as research, library and computational facilities.....

## 7. Comparing the faculty and student target numbers between the two institutes.

*NIS each [1] (TABLE- 1 & 2)*

Total student strength= 1000

Total faculty strength=100 (core faculty)

*IISER each: [2] R<sub>x</sub>PG News 14<sup>th</sup> Nov*

Total student strength= 2000

Total faculty strength=200

The size in terms of faculty and student strength is the main difference that we could find between NISs and IISERs: The NIS proposal was for 4 institutes initially while the IISER proposal is for 2 institutes initially, and later to have five institutes. Thus IISERs are basically twice funded NISs. The difference in budget estimates between them is due to two reasons: 4 NISs initially vs 2 IISERs initially and the budgets of national level institutes have changed drastically from 2002-03 (when the predecessor of NIS was conceived) to 2005 (when IISER was finalized). This can be verified by looking at the IIT budget estimates in 2002-2003 and their budget in 2005.

Besides let us look at Box 11, Box 12, Box 13 and Box 14, where NISs and IISERs used interchangeably. In Box 12 the Chief Minister of West Bengal is reported to have referred to IISER in Kolkata as an NIS. In Box 11 and 13 the newspapers have referred to IISERs and NISs. In Box 14 the article says how Kolkata got into the mix of the earlier proposed four national centers. **From all of them it is evident that there is not much difference between NISs and IISERs except the name and the almost doubling of the sizes.** To claim that the doubling of the targeted size make them different is as ludicrous as saying IIT Kharagpur is no longer IIT Kharagpur if its student population (and budget) doubles. In fact, its budget has more than doubled in the last few years.

Quote from Box 11: Dated March 12-25 2005 says: "... the SAC-PM has advocated the creation of two new institutions to be called National Institute of Sciences, in Kolkata and Pune."

Quote from Box 12: "It's a piece of good news that we will have the National Institute of Sciences, modeled after Bangalore," Bhattacharjee said.

Quote from Box 13: *However the UPA government recently decided to set up regional center of National Institute of Sciences at Kolkata fuelling speculation that the proposed Bhubaneswar center would be shifted to Kolkata....*

Quote from Box 14: *The University Grants Commission (UGC) recommended setting up four national centers in Allahbad, Chennai, Pune and Bhubaneswar.*

*Calcutta became a contender after chief minister Buddhadeb Bhattacharjee mounted a campaign early this year. Backed by the Prime Minister, Bhattacharjee submitted a detailed proposal to the Centre.*

*“Delhi agreed to include Calcutta and in March 2005, asked the state government to prepare the groundwork for setting up the institute,” education department sources said.*

*In July 2005, the Planning Commission, after examining the ministry for human resource development proposal, recommended that instead of five cities, only Calcutta and Pune should house the centre.*

*“Buddhababu’s achievement lies in the fact that he could place Calcutta above all other locations,” said Satyasadhan Chakraborty, state higher education minister.*

\*And now our peaceful state is in turmoil because of this.\*

An emotional Tripathy went to the extent of warning the central government that Orissa could put the entire nation into darkness if it so decided as the state supplies a major portion of power and iron ore.

The speaker asked him not to make any remarks that might affect national unity.

Communist Party of India-Marxist (CPI-M) members from West Bengal denied that the institute had been shifted to Kolkata.

\*I don't think that what Kolkata is getting is the same one that was granted for Bhubaneswar. We were never against the development of Orissa. We will support them,\* CPI-M leader Basudeb Acharya said.

When the opposition insisted on a response from the government, Leader of the house Pranab Mukherjee said he would ascertain the facts and inform them about the status of the institute.

He added that he had not been informed about the members' decision to raise the issue.

\*You cannot expect the leader of the house to give an instant reply like an instant coffee. I have not been given any notice about your decision to raise this particular issue today,\* Mukherjee said.

As the members continued to insist for an assurance from the government, Chatterjee adjourned the house.

(IANS)

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## **Box 10: News item mentioning MP Basudeb Acharya's statement saying the proposed institutes in Kolkata and Bhubaneswar are different**

Thus, in response to Mr. Basudeb Acharya's statement that "I don't think what Kolkata is getting is same as what was granted to Bhubaneswar", we say that just because one changes the name from NIS to IISER the institute does not become different; as a person does not become different when he or she changes the name.

autonomous entity may enable such programmes to be initiated proactively. But the track record of the proactively initiated multi-agency National Superconductivity Programme (NSP) during 1987-1996, funded independently and managed by scientists, does not instil much confidence. Even if an autonomous research funding body can be justified, the level of funding that has been recommended lacks justification.

Indeed, an editorial in *Current Science* in 2002, titled 'Science in India: Signs of Stagnation' - the very issue that the proposed foundation seeks to address - stated: "Ironically, the decline of scientific productivity coincides with enhanced inputs into scientific research (during the 1980s and 1990s)... One possibility is that the universities, which used to contribute substantially to published output, have been declining alarmingly. While many new, and sometimes embarrassingly well-endowed, national institutions have been created since the mid-1970s, the academic science departments in most universities have been rapidly plunging downhill." Post-doctoral research is the stage for fresh research ideas. Unfortunately, observers point out that even in institutions such as the IISc there is decline in the quality of post-doctoral research scholars, a direct consequence of the declining quality among university doctoral students.

So it is well recognised that the issue is not money but the declining human resource quality. And yet, even as the SAC-PM moots an annual research fund of Rs.1,000 crores, nothing has been said about how this money is going to leverage creation of quality researchers. On the contrary, the SAC-PM has advocated the creation of two new institutions to be called the National Institute of Science, in Kolkata and Pune.

The root cause of the problem lies elsewhere. Not only is there declining interest in science among entry-level students, but there is lack of quality faculty as well, the so-called 'missing generation'. The problem requires drastic academic and administrative reforms that call for vision and innovative ideas in the corridors of the HRD Ministry and the University Grants Commission, which are sadly lacking.

The Rs.100 crores announced by the Finance Minister for the IISc also defies logic. This one-time grant cannot really achieve what he desires. The IISc can at best buy some expensive equipment or build some laboratories and other infrastructure with the money. As an IISc scientist put it: "If money could get you a Harvard or Princeton, Dubai and Saudi Arabia would have a proliferation of such universities. What is needed are people." Indeed, if not already, at least a few years down the line, even the IISc would face shortage of quality students and faculty. Chidambaram would have done better by giving it to some select universities.

Indeed, even the sum of Rs.1,000 crores, proposed for the NSERF, could be better utilised by channelising it into the universities well known for science in the 1950s and 1960s, such as the ones in Kolkata, Delhi,

### **Box 11: A Frontline article dated March 12-25 2005 that refers to the institutes in Pune and Kolkata as National Institute of Sciences.**





# The Telegraph

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## Law to rein in tech colleges

OUR CORRESPONDENT

**Burdwan, Oct. 3:** The government would soon bring a law to put a leash on private engineering colleges, the chief minister said today.

"We are getting numerous complaints about irregularities in private engineering colleges. A legislation is necessary to stem the rot," Buddhadeb Bhattacharjee said while addressing the 31st state convention of the Students' Federation of India (SFI) here, about 115 km from Calcutta.

Bhattacharjee said there were nine private engineering colleges in the state a couple of years ago. There are 62 now.

"We have reports that the standard of education in private engineering colleges is not quite up to the mark. They are taking huge admission fees from students, but teachers are not getting regular salaries. Moreover, laboratories and other facilities in such colleges are very poor," he added.

Officials at Writers' Buildings said the government has already begun formulating the law on the management of private engineering colleges. The matter has already been referred to the law minister, Nisith Adhikary.

The new state SFI secretary, Apurba Chatterjee, welcomed the chief minister's announcement. "The private colleges are fleecing poor students by asking them to pay exorbitant tuition fees — sometimes about Rs 1 lakh a year. However, such colleges neither have proper infrastructure nor good teachers. A legislation will help the government oversee the academic activities of such institutions better."

The chief minister again lamented that the Left Front government had failed to ensure cent per cent literacy in the state. "Nearly 30 per cent of the population is still left out of the literacy programme."

He, however, expressed satisfaction that the National Institute of Sciences is being set up in the state. The Prime Minister would lay its foundation stone at Salt Lake end-October.

"It's a piece of good news that we will have the National Institute of Sciences, modelled after Bangalore," Bhattacharjee said, adding that his government had sought Delhi's nod for setting up two more medical colleges.

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1/3/2006

**Box 12: An article from Telegraph dated October 4, 2005, where the CM of West Bengal refers to the institute in Kolkata as National Institute of Sciences.**



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**Central university in KBK demanded**

Statesman News Service  
BHUBANESWAR, Oct. 24. — Chief minister Mr Naveen Patnaik today urged the Centre to accord approval for a central university in the undivided Koraput-Bolangir-Kalahandi (KBK) districts, besides expediting setting up the proposed Regional Centre of Studies in Integrated Sciences at Bhubaneswar.

These requests were made by the Chief minister during his meeting with the Union Human Resources Development minister Mr Arjun Singh at New Delhi today. Mr Singh sought a formal proposal from the state government for the establishment of a central university in KBK region while appreciating the rationale behind the idea, said an official release.

The Union minister also assured to review the matter relating to the establishment of the Regional Centre of Studies in Integrated Sciences under the National Institute of Science framework. It may be noted that the then NDA government had announced establishment of regional centres of National Institute of Sciences at six places across the country including Bhubaneswar.

However, the UPA government has recently decided to set up a regional centre of NIS at Kolkata, fuelling speculations that the proposed Bhubaneswar centre would be shifted to Kolkata.

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10/24/2005

**Box 13: An article in the Statesman dated 24<sup>th</sup> Oct 2005, in which the institute in Kolkata is referred to as NIS.**





# The Telegraph

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Today's Edition

| Saturday, October 29, 2005 |

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## Science on revival route - New centre to offer integrated, inter-disciplinary studies

MITA MUKHERJEE

On Sunday, Prime Minister Manmohan Singh will lay the foundation stone of a national institute of science education and research at Salt Lake.

Riding an investment of Rs 500 crore, it will be the single largest education project in Bengal since the Indian Institute of Management, Joka, opened in 1961.

Yet, two years ago, when a group of Pune-based scientists first mooted the idea of a new-age centre for science education and research to stem the brain drain to disciplines like management, Calcutta featured nowhere on their radar screens. Pune was the preferred location.

The University Grants Commission (UGC) later recommended setting up four national centres in Allahabad, Chennai, Pune and Bhubaneswar.

Calcutta became a contender after chief minister Buddhadeb Bhattacharjee mounted a campaign early this year. Backed by the Prime Minister, Bhattacharjee submitted a detailed proposal to the Centre.

"Delhi agreed to include Calcutta and in March 2005, asked the state government to prepare the groundwork for setting up the institute," education department sources said.

In July 2005, the Planning Commission, after examining the ministry for human resource development proposal, recommended that instead of five cities, only Calcutta and Pune should house the centre.

"Buddhababu's achievement lies in the fact that he could place Calcutta above all other locations," said Satyasadhan Chakraborty, state higher education minister.

"The institute is going to fetch us accolades in the field of education after many decades," he added.

The Indian Institute of Science Education and Research, which got the final clearance of the Union cabinet on Thursday, will function as a counterpoint to the IITs and IIMs. Expected to be commissioned on a small scale next year, the institute will offer advanced, inter-disciplinary studies in science.

"The institute represents an absolutely new vision of science education," said D.J. Chattopadhyay, dean of science, Calcutta University. "The concept is new, as students will be exposed to research-based education from a very young age. The model on which it will function is operational only in the US."

After passing Class XII, students can study under an integrated programme at the proposed institute. "It will be compulsory to study all areas of basic science — physics, chemistry, mathematics and biology," said an education department official.

[http://www.telegraphindia.com/1051029/asp/calcutta/story\\_5412063.asp](http://www.telegraphindia.com/1051029/asp/calcutta/story_5412063.asp)

1/3/2006

**Box 14: An article in the Telegraph which describes how Kolkata got into the mix and rose to become a contender.**

**1.8 Subterfuge adopted to shift an announced for NIS from Bhubaneswar to Kolkata?**

Finally, as in case of the 4 NISs, although the current decision is for 2 IISERs, as stated below the plan is to expand it to 5 IISERs. The following quote is from an article in the Hindu <http://www.hindu.com/2005/11/11/stories/2005111104331400.htm> given in Box 15.

*.....The country's growth was a corollary to scientific advancements, and various steps were being taken to harness the potential. Foundation for two Institutes for Science Education and Research (ISER) in Pune and Kolkata at a cost of Rs. 500 crores each will be laid in 2006, and three more ISERs will be started in the north, south and central parts of the country in the coming years.....*

This also means that if the regional distribution pattern mentioned above is followed then there will not be any IISERs in Bhubaneswar. Thus what we have is NIS is renamed as IISERs and while one of the NISs was to be established in Bhubaneswar, none of the IISERs would be established in Bhubaneswar. **Thus it is not off the mark to say that a subterfuge of renaming of NIS to IISER was adopted to shift an announced for NIS from Bhubaneswar to Kolkata.**

control, and monitored by the scientific community on the lines of the National Science Fund of the United States.

It would revamp the research and funding system in the universities, work towards enhancing their basic research in science and technology, Prof. Rao told presspersons here.

The country's growth was a corollary to scientific advancements, and various steps were being taken to harness the potential. Foundation for two Institutes for Science Education and Research (ISER) in Pune and Kolkata at a cost of Rs. 500 crores each will be laid in 2006, and three more ISERs will be started in the north, south and central parts of the country in the coming years.

To expand the science base, more than 200 students will be admitted to each of the two IITs (Kanpur and Madras) in integrated science courses from 2006, and such admissions to other IITs would be made in the following years.

Prof. Rao was hopeful that the newly instituted Ramanujam Fellowship, having a value of Rs. 50,000 a month and an additional contingency amount of Rs. 5,00,000 a year for a five-year period, and the J.C. Bose Fellowship, recognising active and performing scientists and engineers with a fellowship of Rs. 20,000 a month in addition to their regular income during a five-year term, will attract the best scientific talent to boost research in the country.

The Taskforce for Women in Science, established by the Ministry of Science and Technology, would seek to provide flexible working hours for women scientists to invest their knowledge.

A sum of Rs. 50 crores has been spent over the recent past under the country's Nano initiatives, for research through the 8 Nanoscience units, and 6 centres for Nano technology.

The idea for establishing Neutrino Laboratory under the Nilgiri Hills has been cleared and the report for the Rs. 400 crore project was ready, Prof. Rao said.

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1/4/2006

**Box 15: An article in the Hindu which mentions SAC-PM Chair's statement on plan for 3 more IISERs in north south and central region and beyond Pune and Kolkata**

## Chapter 2: Does Bhubaneswar deserve an NIS?

In this chapter we argue that Bhubaneswar deserves an NIS, not just to achieve regional balance in national institutes, or for a local need, but also because Bhubaneswar has shown its ability to support such a world class institute.

### 2.1 A case for Bhubaneswar -- Why an NIS or IISER should be established in Bhubaneswar

India is economically shining as a whole. But it is falling behind in science and technology, especially in research. According to [1], the best Indian university, IISc Bangalore is grouped at 300-400 internationally. The next best, IIT Kharagpur is grouped 400-500 internationally. Within Asia they are grouped 37-65 and 66-93 respectively. For a long time India had 5 IITs and one IISc. Since then even though one new IIT has been established at Guwahati and University of Roorkee has been made to an IIT, with large population increase and with India falling behind in Science, there is a need for more IISc (and possibly even IIT) like institutions. Moreover with India's economy doing well now, India can financially afford to create several more IISc like institutions. The Indian government, scientists and academicians all are aware of the above and thus there are plans to create more IISc like institutions. In this context on 9th December 2003, the then HRD minister Professor M. M. Joshi had announced [2,3] that UGC has established steps to initiate four National Institute of Sciences (NIS) at Bhubaneswar, Chennai, Pune and Allahabad. Recently [4], Prime minister Dr. Manmohan Singh announced the setting up of two Indian Institute of Science Education and Research (IISER), which are the same in all but name to the NIS, at Pune and Kolkata, respectively.

Since it is a consensus that India needs more high quality institutions like or better than the existing IISc, one of the important questions that arises is where these new institutions should be established. Two main principles, with some possible tension among them, need to be followed in the determination of locations.

1. For all around growth of India the institutions need to be distributed across the country. (In this regard recently PM Dr. Singh, in [5], addressed the regional imbalance issue in terms of educational institutions and said "I trust our government as well the state governments will take note of these findings and evolve policies to remedy these regional imbalances.")
2. The institutions need to be located in places where it will have the largest impact and where it will benefit India as a whole the most. (i.e., the biggest bang for the buck.)

Based on the marginal utility principle where the marginal satisfaction of eating a second rosogolla is much less than eating the first rosogolla, it is clear that biggest bang for buck of a new NIS/IISc will be in a location or state which does not have such an institution yet. But among these places the following criteria becomes important:

3. The institution should be located in a place that can nurture it locally, that has the promise to nurture it locally and that benefits the local population also, so that the local population has vested interest in supporting such an institution.

Finally, because of the urgency of establishing such institutions, we need to consider the issue of:

4. Whether the location and the local and state government can help in the quick establishment of such an institution?

We will argue here that Bhubaneswar, Orissa satisfies all the above criteria, and if they are all taken into account it comes out in the top among all cities in India.

(1) Currently Orissa does not have a central university [6], an institution of national importance (such as IITs, ISI, etc.) [7], a reputed centrally funded institute such as an IIM, or a centrally funded IIT or IIITM. It also does not have an autonomous science and technology institution [8] of the department of science and technology.

(2 and 3) We will address the issues 2 and 3 through two points. (a) Orissa government and the people of Orissa have helped create several top notch institutions in Bhubaneswar, Orissa which do world class research; and (b) An IISc/NIS in Bhubaneswar will tremendously benefit the local population, thus they will have a vested interest in nurturing it.

(a) Orissa government and the people of Orissa have helped create several top notch institutions in Bhubaneswar, Orissa. Notable among them are the Institute of Physics, the Xaviers Institute of Management and the Institute of Life Sciences, all in Bhubaneswar. We now describe these institutes using phrases from their web pages.

The Institute Of Physics, Bhubaneswar is an autonomous research institution funded jointly by the Department Of Atomic Energy (DAE) and the Government of Orissa. The Institute was officially established in 1972 by the Government of Orissa [9]. Research at Institute of Physics is top notch by international standards. Its alumni [10] have gone on to many good institutions all over the world. Many of its faculty and students have preferred it over an IIT. Its annual report [11], publication list [12], faculty vita, and alumni biography [10] are testament to the quality of this institution in Bhubaneswar.

The Xaviers Institute of Management [13] owes its origin to a Social Contract between the Government of Orissa and the OJS (Orissa Jesuit Society). It was established in 1987, and ranks among the top business schools in India [14]. This year's Outlook magazine ranks it 8 in the country among various business schools, including the IIMs. It has faculty with Ph.Ds from top business schools such as University of Massachusetts, and Stern School of Business, NYU, New York. It also has a fellows program which is equivalent to Ph.Ds.

The Institute of Life Sciences, an initiative by the Govt. of Orissa, Department of Science and Technology started a decade back. On August 2, 2002 it came under the administrative and financial control of Department of Biotechnology, Government of India. It was dedicated to the nation on July 15, 2003 by the Prime Minister of India with a declaration to develop it as “National Centre of Excellence” engaged in research on various areas of modern biology. The researchers of this institute publish often in international journals [15].

To reiterate, the above three institutions were created by the foresightedness of the Government of Orissa, and are now premier research institutions, albeit with limited focus, but doing world class research and teaching. Besides these three there are several other research institutions in and around Bhubaneswar that do very good and useful research. This includes the Regional Research laboratory (RRL) [17] in Bhubaneswar, the Regional medical research center (RMRC) [18] (see page 123 – 125) in Bhubaneswar, the Central Rice research institute (CRRI) [19] in Cuttack, the central institute of fresh water aquaculture (CIFA) [20,21] in Bhubaneswar, and the national institute of rehabilitation training and research [22] in Olatpur. In addition two fledgling institutions, the Institute of Material sciences [23] and the Institute of mathematics and application [24] have been established by the Government of Orissa and are in their beginning stages.

The above illustrates how Bhubaneswar and Orissa have established and nurtured top notch research and educational institutions. Thus one can extrapolate and conclude that with high probability an NIS/IISER in Bhubaneswar will be very successful and well nurtured. Nevertheless, as we mentioned earlier, it is important that an institution like NIS/IISER should have some significant benefit to the local population, lest the local population feel alienated by it.

(b) In the greater Bhubaneswar area (which includes Puri and Cuttack) there are now 2 state funded and 19 private engineering colleges. An NIS/IISER in Bhubaneswar will benefit these institutions as a place where the faculty of the local colleges can pursue higher education (without moving away and thus negatively affecting their parent institutions), the local colleges can recruit high quality faculty from among the NIS/IISER graduates, and the students of the local colleges can pursue summer research and training at the NIS/IISER. Besides Bhubaneswar and its vicinity have a large range of industries with many more industries set to come. This includes metal based industries such as NALCO and the Kalinganagar complex to software companies such as Infosys and Satyam, and planned operations of TCS, and Wipro. There will be significant synergy between these industries and the proposed NIS/IISER in terms of joint research, students of NIS/IISER pursuing practical training at the industries, and employees of the industries pursuing higher degree at the NIS/IISER. In addition Orissa has two STPs (at Bhubaneswar, Rourkela), and one more STP in Berhampur in the making, which will provide opportunities to the graduates of the NIS/IISER to incubate start-up companies. Thus, with great benefit potential of an NIS/IISER to the local population and the benefit

to the NIS/IISER from existing infrastructure, Bhubaneswar is an ideal place for establishing an NIS/IISER.

Now moving on to the final point, because of the urgency an NIS/IISER can be immediately started in Bhubaneswar by using some of its existing infrastructure.

(4) In particular, the Institute of Physics and the Institute of Life Sciences can be the starting point of an NIS/IISER. The picturesque Institute of Physics campus can be used to start an NIS/IISER right away. As mentioned earlier, Bhubaneswar also has the beginning of an Institute of Material Science, and an Institute of Mathematics and Applications, which may be folded into an NIS/IISER. If an NIS/IISER is started in Bhubaneswar, the Institute of Physics and Institute of Life Sciences faculty can form the initial core faculty and teach the first classes until the institute hires additional faculty. The researchers at Regional medical research center and Regional research laboratory can also chip in.

**Conclusion:** In summary, Bhubaneswar is the best in the country with respect to the various criteria necessary for the next location of an NIS/IISER. It is clear that for that reason, in December 2003, the then HRD minister Professor M. M. Joshi had announced [2,3] that UGC has established steps to initiate one of the four National Institute of Sciences at Bhubaneswar. Unfortunately, for some reason the recent announcements for IISER did not include Bhubaneswar. Although this injustice needs to be corrected for many other reasons, by its own merit, as we elaborated in this article, Bhubaneswar, Orissa deserves an NIS/IISER immediately and we sincerely hope the central government will agree with us and pursue this at the earliest.

Postscript: All or most of the above arguments also hold for establishing a new IIT in Orissa. But since that does not seem to be in cards at this time, we do not elaborate on it. Also, in our arguments we have focused on the key issues and do not mention many other synergies such as the existence of other fine universities (Utkal University, and Orissa University of Agriculture and Technology) in the Bhubaneswar area.

[1] <http://ed.sjtu.edu.cn/ranking.htm>

[2]. [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm)

[3]. <http://pib.nic.in/archieve/lreleng/1yr2003/rdec2003/10122003/r1012200313.html>

[4]. <http://pib.nic.in/release/release.asp?relid=12305>

[5]. <http://in.rediff.com/news/2005/sep/28pm1.htm>

[6]. List of central Universities

<http://www.ugc.ac.in/inside/utype.php?st=Central%20University>

<http://www.education.nic.in/htmlweb/autbod.htm> (NONE in Orissa)

[7]. List of Institute of National Importance

<http://www.ugc.ac.in/inside/utype.php?st=Institute%20of%20National%20Importance>  
(NONE in Orissa)

[8]. List of autonomous Science and Technology Institutions

[http://dst.gov.in/autonomous/autonomous\\_index.htm](http://dst.gov.in/autonomous/autonomous_index.htm)

(NONE in Orissa)

- [9] <http://www.iopb.res.in/overview.php>
- [10] <http://www.iopb.res.in/~alumni/members/members.html>
- [11] [http://www.iopb.res.in/~library/ar\\_02\\_03/](http://www.iopb.res.in/~library/ar_02_03/)
- [12] [http://www.iopb.res.in/~library/ar\\_02\\_03/Publications.pdf](http://www.iopb.res.in/~library/ar_02_03/Publications.pdf)
- [13] <http://www.ximb.ac.in/about/>
- [14] <http://www.orissalinks.com/#ximb>
- [15] <http://www.ilsc.org/>
- [16] <http://www.ilsc.org/publication.htm>
- [17] <http://www.rrlbhu.res.in/publication.html>
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- [22] <http://nirtar.nic.in/>
- [23] <http://orissagov.nic.in/sciencetechnology/ims.htm>
- [24] <http://orissagov.nic.in/sciencetechnology/ima.htm>



## Chapter 3: HRD lopsidedness: Orissa ignored, neglected, and shortchanged by the HRD ministry over the years

### 3.1 State wise distribution of mega centrally funded HRD institutions

The following table shows the distribution of the various central universities, institutions of national importance such as IITs, IIMs, ISI, and IISc, and other national institutes such as IIITs, across the various states and union territories in India.

Sl. No.	State/Union Territory	National Educational Institute
1 <sup>S</sup>	Andhra Pradesh	University of Hyderabad (CU), Maulana Azad National Urdu University (CU)
2 <sup>S</sup>	Arunachal Pradesh	North Eastern Regional Institute of Science*
3 <sup>S</sup>	Assam	Assam University (CU), Tezpur University (CU), IIT Guwahati
4 <sup>S</sup>	Bihar	---
5 <sup>S</sup>	Chattisgarh	---
6 <sup>S</sup>	Delhi	University of Delhi (CU), IGNOU (CU), Jamia Islamia (CU), JNU (CU), AIIMS, IIT Delhi
7 <sup>S</sup>	Goa	---
8 <sup>S</sup>	Gujarat	IIM Ahmedabad
9 <sup>S</sup>	Haryana	---
10 <sup>S</sup>	Himachal Pradesh	Indian Institute of Advanced Studies*
11 <sup>S</sup>	Jammu & Kashmir	---
12 <sup>S</sup>	Jharkhand	Indian School of Mines, Dhanbad
13 <sup>S</sup>	Karnataka	IISc, IIM Bangalore
14 <sup>S</sup>	Kerala	IIM, Kozhikode, Sree Vhithra Tirunal Institute for Medical Sciences and Technology*
15 <sup>S</sup>	Madhya Pradesh	IIM, IIITM Gwalior
16 <sup>S</sup>	Maharashtra	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya (CU), IIT Mumbai, AFMC Pune.
17 <sup>S</sup>	Manipur	Central Agricultural University (CU)
18 <sup>S</sup>	Meghalaya	North Eastern Hill University (CU)
19 <sup>S</sup>	Mizoram	Mizoram University (CU)
20 <sup>S</sup>	Nagaland	Nagaland University (CU)
21 <sup>S</sup>	Orissa	---
22 <sup>S</sup>	Punjab	National Institute of Pharmaceutical Education and Research*
23 <sup>S</sup>	Rajasthan	---
24 <sup>S</sup>	Sikkim	---
25 <sup>S</sup>	Tamil Nadu	IIT Chennai
26 <sup>S</sup>	Tripura	---
27 <sup>S</sup>	Uttanchal	IIT Roorkee
28 <sup>S</sup>	Uttar Pradesh	Aligarh Muslim University (CU), BHU (CU), Babasaheb Bhimaroo Ambedkar University (CU), IIT Kanpur, IIM Lucknow, IIIT Allahbad

29 <sup>s</sup>	West Bengal	IIT Kolkata, IIM Kolkata, ISI Kolkata, Viswa Bharati (CU)
30 <sup>u</sup>	Andaman & Nicobar	--
31 <sup>u</sup>	Chandigarh	Postgraduate Institute of Medical Education & Research *
32 <sup>u</sup>	Dadra and Nagar Haveli	--
33 <sup>u</sup>	Daman and Diu	--
34 <sup>u</sup>	Lakshadweep	--
35 <sup>u</sup>	Pondicherry	Pondicherry University (CU)

**Box 16: State Wise Distribution of Central University (CU), IIT, IIM, IIIT, and IIITM across India**

\*Other institute, <sup>s</sup> states, <sup>u</sup> union territory

	Zone	States which have IITs/IISc/IIM etc	States that are ignored
1	Northern zone	Uttar Pradesh	Jammu & Kashmir, Haryana, Himachal Pradesh, and Punjab
2	Southern zone	Equal distribution	
3	Eastern zone	West Bengal	<b>Orissa</b> , Bihar, Sikkim,
4	Western zone	Maharashtra	Rajasthan, Goa
5	Central zone	Madhya Pradesh	Chhatisgarh
6	North east zone	Assam	Tripura

**Box 17: Zone wise listing of states that are ignored and states that are blessed**

The data in the Box 16 shows that among the sizable states Orissa, Haryana, Himachal Pradesh, Punjab, Rajasthan, Jammu & Kashmir, Bihar, Chhatisgarh do not have a single national educational institute. It also shows that the states in the south have a more balanced distribution of national educational institutes among themselves compared to their counter part states in North, West and East India. Thus in the last 50 years Eastern, Western and Northern zones of India have not been looked at with the equal distribution philosophy similar to Southern zone of India while deciding on national educational institute. Since independence West Bengal, Maharastra and Uttar Pradesh seem to be getting more than the average number of national institutes, while states like Orissa and Rajasthan have been completely ignored when deciding on national educational institutes.

**3.2 A rough quantitative analysis: comparing HRD funding between WB & Orissa**

Often a quantitative analysis makes comparison easier and makes disparity between regions or states with respect to a particular aspect more easily noticeable. For example, one can easily compare two states by the total length of national highways, average length of national highways per area, or average length of national highways per capita and thus easily get an idea of any disparity. In case HRD funding, comparing which states have institutions like IITs and may not make the disparity easily noticeable as there are only 7 IITs and hence not all states can have an IIT. Thus we try to add up the HRD funding of the various national institutes and make the comparison. Since we were not

able to get the latest data for all the institutes we used the following sources and make a rough comparison between the HRD spending on fully centrally funded institutes in West Bengal and Orissa.

[A] <http://www.education.nic.in/Annualreport2004-05/Uhe.pdf>

[B] <http://www.baral.us/orissa/pdf/hrd-planning-commission.pdf>

[C] <http://www.education.nic.in/Annualreport2004-05/Techedu.pdf>

[D] [http://mospi.nic.in/rti\\_manual11\\_2005.pdf](http://mospi.nic.in/rti_manual11_2005.pdf)

West Bengal has: IIT Kharagpur, IIM Kolkata, Vishwa Bharati Central University, ISI Kolkata, and NIT Durgapur.

To compute the total spending on these institutes, we use the Box [B] for estimating the budget of IIT Kharagpur, IIM Kolkata and NIT Durgapur. For the central university we use [A], and for ISI Kolkata we use [D]. For ISI Kolkata we take a much lower number as the numbers in [B] are five years old and the numbers in [D] are for this year.

Thus the total HRD spending in West Bengal five years back was approximately 36.51 crores + 10 crores + 43.3 crores appx + 10 crores appx + 7.7 crores = 98.51 crores

A similar calculation for Orissa, which has only NIT Rourkela, shows the HRD spending to be 7.7 crores.

**Thus the HRD ministry spends approximately 13 times more per year on institutions in West Bengal than on Orissa. After taking into account the population, the HRD ministry spends approximately 6-7 times more per capita on West Bengal residents than on Orissa residents. One can imagine how worse this will become if an NIS is not established in Bhubaneswar or an IISER is established in Kolkata or both. This ratio was infinite six years back when NITs were called RECs. At that time the HRD's funding on Orissa on fully funded central institutions was ZERO.**

**One can fathom the magnitude of the disparity by putting it in terms of roads. It would then mean, six years back Orissa did not have any National highways while states like West Bengal had plenty and now the percapita highway in West Bengal would be 7 times more than in Orissa. This would ofcourse be not acceptable and indeed the national highway numbers of Orissa and West Bengal are comparable. But when it comes to HRD, the most important resource of a state, West Bengal has 6-7 times the HRD national highways (i.e, national institutes) than Orissa. HOW IS THIS ACCEPTABLE TO INDIA? HOW DARE THE CENTRAL GOVERNMENT PLANS TO MAKE IT WORSE? HOW COME THE REST OF INDIA IS NOT OUTRAGED?**

*Footnotes: We realize that the above data is a bit outdated and incomplete. For example, according to a source with close knowledge of NIT RKL and IIT KGP budget, the current funding of NIT Rourkela is about Rs 15 crore annually on non plan (revenue expenditure) and 10 crore on plan (construction, special projects), and the current funding of IIT Kharagpur is some thing like Rs 80 crore under nonplan and Rs 30 crore under plan grant. Although the exact number changes the ration between the funding level of an*

IIT and NIT remains same. Hence our current calculation with old data is a good approximation even for the present situation.

Similarly, according to [http://mospi.nic.in/rti\\_manual11\\_2005.pdf](http://mospi.nic.in/rti_manual11_2005.pdf) the current funding (in 2005) of ISI is 40 crores. However, ISI is not funded by the HRD ministry. We have taken it into our calculation as it is an institute of national importance.

We have requested for and are waiting for the exact data for all the HRD institutes. Nevertheless, the above analysis gives us a rough idea of the magnitude of the disparity and imbalance in the HRD ministry's funding with respect to its technical and higher education institutions.

infrastructural facilities which are much below the national average. The proposed scheme will support facilities of technical education by modernizing laboratories, libraries and providing digital resources.

#### Technical Education

Table

(Rs. crore)

A. Continuing Schemes

Sl. No.	Name of the Scheme	Ninth Plan 1997-2002 Allocation	Ninth Plan 1997-2002 Likely Expr.*	Tenth Plan 2002-07 Proposed Outlay
1	AICTE	400.46	360.73	655.00
2	Sant Longowal Institute of Engineering and Technology	74.61	63.30	50.00
3	Apprenticeship Training	82.00	52.07	150.00
4	UGC Schemes	173.68	123.42	
5	IISc, Bangalore	90.00	80.00	150.00
6	Community Polytechnics	309.84	104.08	701.35
7	Payment for Professional and Special Services	8.82	7.81	20.00
8	IITs	450.75	627.36	1278.00
9	RECs	244.36	246.17	700.00
10	IIMs	102.31	88.39	300.00
11	Engineering College at Jammu	2.50	2.00	
12	Technology Development Mission	0.38	8.00	62.50
13.	Ed.CIL	0.08	0.79	01.00
14	North Eastern Regional Institute of S&T	58.00	58.00	50.00
15	RAGNICAS	11.00	47.00	80.00
16	IITM, Gwalior	54.43	65.09	80.00
17	Polytechnic for Disabled	21.00	5.95	300.00
18	TTIs	66.74	43.56	192.00
19	NITIE, Bombay	13.22	21.64	40.00
20	NIFFT, Ranchi	15.60	14.59	44.00
21	SPA, New Delhi	17.21	16.61	34.00
22	Research and Development	23.84	27.14	50.00
23	MODROB*	38.50	25.00	50.00
24	Thrust Areas of Technical Education*	29.10	19.00	50.00
25	Software Manpower Development	62.28	0.01@	
26	ISM, Dhanbad	12.50	12.50	30.00
27	BOATS	10.50	5.64	15.00
28	Research and Information Services	-	3.00@	
29	Student Counselling and Development Programme	-	3.00@	
30	Information Technology	-	-	
31	Technical Education III	-	0.01@	
32	IIT, Allahabad	-	-	
	Total (Technical Education)	2373.51	2132.46	5082.85

\* Includes actual expenditure from 1997-98 - 2000-01 and 2001-02 Approved Outlays

@ No expenditure incurred from 1997-98 to 2000-01 and this reflects only approved outlay for 2001-02

**Box 18: A page of the report of the steering committee on secondary, higher and technical education for the tenth 5 yr plan 2002-2007, Dec 2001 (Full Report at [http://planningcommission.nic.in/aboutus/committee/strgrp/stgp\\_scndry.pdf](http://planningcommission.nic.in/aboutus/committee/strgrp/stgp_scndry.pdf))**



The higher education system of India has seen a 14-fold increase in the number of universities and a 33-fold increase in the number of colleges in comparison to the number at the time of independence.

There are 329 universities and 203 state universities in all at present. The Indian Higher Education System comprises of 18 Central Universities, 90 Deemed Universities, five institutions established under States legislation acts and 13 institutes of national importance established by Central legislation, nearly 16,885 colleges, including around 1,798 women colleges.

The enrolment of women students at the beginning of the academic year 2004-05 was 40.03 lakh, constituting 40.22 per cent of the total enrolment. Of the total women enrolment, only 12 per cent women have been enrolled in professional courses and the rest in non-professional courses. The women enrolment is the highest in Kerala (60.57 per cent) and lowest in Bihar (24.35 per cent) in terms of percentage enrolment to total enrolment.

The number of doctoral degrees awarded by various universities (as on January 1, 2003) was 13,733. Of them, the faculty of arts had the highest number with 5,034 degrees followed by the faculty of science with 4,497 degrees. These two faculties together accounted for 69.40 per cent of the total number of doctoral degrees awarded.

The regular faculty strength in universities and colleges was 0.76 lakh and 3.81 lakh, respectively, totalling 4.57 lakh in the beginning of the reporting year.

### General Development of Universities and Colleges

The University Grants Commission has been providing financial assistance for the development of universities and colleges, by making budgetary Plan provision for various programmes during different plans, including the Tenth Plan. The assistance to Central and a few Deemed Universities, and colleges affiliated to Delhi and Banaras Hindu University is being provided both under Plan and non-Plan heads while assistance to state universities and their affiliated colleges is being provided only under the Plan head. During the Tenth Plan, period (2002–2007), general development assistance to individual universities is being provided based on the outlays determined by the UGC. One-third of the outlay is based on performance of the individual university.

The objective of development assistance programme is to improve infrastructure and basic facilities in universities and colleges so as to achieve at least the threshold level, ensuring qualitative development. In the Tenth Plan, emphasis is being laid on reducing disparity between urban and rural areas, developed and backward regions by supporting universities located in disadvantaged areas and also to increase access and enhance equity for marginalised groups like women, SC/STs, backward and Minority groups.

Under the development assistance programme, the UGC is assisting each eligible university for items namely, staff—both teaching and non-teaching, and technical, equipment for laboratories, special office equipment and modern teaching aids, repair of major equipment, books and journals, buildings, campus development, health centres, student amenities, etc. Assistance for these items is on 100 per cent basis.

#### Central Universities

Out of 18 Central universities, 16 universities are being given development grants, 14 of which are being given maintenance grants in addition to development grants. During 2003-04, the UGC made available an amount of Rs. 692.13 crore to meet the maintenance expenditure of 16 universities and Rs. 192.97 crore as a development assistance to 17 universities, including IGNOU.

Annual Report 2004-05

143

**Box 19: A**  
page of the 2004-2005 UGC annual mentioning total funding amounts for the CUs.

Ministry of Statistics and Programme Implementation  
Sardar Patel Bhavan, Sansad Marg  
New Delhi-110001.  
Website :- <http://mospi.nic.in>

Right To Information Act, 2005

The budget allocated to each of agency, indicating the particulars of all plans, proposed expenditures and reports on disbursements made.

BUDGET 2005-06

S.No.	Division	Non-Plan (Rs. lakh)	Plan (Rs. lakh)	Total (Rs. lakh)
1.	Central Statistical Organisation (including Computer Centre)	1271.60	7448.00	8719.60
2.	National Sample Survey Organisation	8390.15	1667.00	10057.15
3.	Grant in aid to ISI, Kolkata	4153.00	1505.00	5658.00
4.i	Programme Implementation Wing (other than MPLADS)	259.00	650.00	909.00
ii	MPLAD Scheme	Nil	158000.00	158000.00
5	Secretariat Services	641.00		641.00
	Others (ICT, IARNIW)	14.25		14.25
	<b>TOTAL</b>	<b>14729.00</b>	<b>169270.00</b>	<b>183999.00</b>

35

**Box 20:** A page from [http://mospi.nic.in/rti\\_manual11\\_2005.pdf](http://mospi.nic.in/rti_manual11_2005.pdf) on ISI Kolkata

### 3.3 What the PM said versus what he did

On the day the honorable Prime Minister announced the establishment of IISERs in Pune and Kolkata, and remained silent about the earlier announced NISs, he took a big step towards increasing the disparity in HRD funding across India. Yet it is ironical, and hypocritical of him to say the following, the same day.

This report also points to a grave regional imbalance in terms of educational institutions in different states, he said.

"I trust our government as well the state governments will take note of these findings and evolve policies to remedy these regional imbalances," Singh said.

How can he make the above statement with a straight face when his action, that he announced the same day, added to the grave regional imbalance he refers to above?

generate high technology, create wealth and prestige for India, while also ensuring that this technology improves the lives of the poor."

There are other causes of concern in the report, which shows that 20 per cent of science graduates and 14 per cent of PhDs in science do not find gainful employment. What is equally worrisome is the finding that many people employed in science-centred jobs are "insufficiently qualified," he said.

This report also points to a grave regional imbalance in terms of educational institutions in different states, he said.

"I trust our government as well the state governments will take note of these findings and evolve policies to remedy these regional imbalances," Singh said.

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## Box 21: An article in Rediff about the PM's statement on regional balance.

### 3.4 The folly continues: unchecked increase in regional imbalance

Despite the PM realizing the regional disparity the folly of adding to the regional imbalance continues. Following are two instances of such follies.



### 3.4.1 Upgrading institutions to IITs and deemed IITs: Why NIT Rourkela was not considered?

Seven institutes have been identified by the Joshi panel, set up by the previous government, for upgradation to IITs or deemed IITs. These are Institute of Technology, BHU; University Colleges of Engineering and Technology of Osmania University; Bengal Engineering College, Howrah; Engineering and Technology Departments of Jadavpur University; Zakir Hussain College of Engineering and Technology, AMU; Andhra University College of Engineering; and, Cochin University of Science and Technology.

**Table C: 2005 The Perception Factor**

The Perception Factor		
Rank	College	Score
1	IIT Kanpur	25
2	IIT Bombay	25
3	IIT Chennai	24.5
4	IIT Kharagpur	24.5
5	IT-BHU, Varanasi	22.4

*According to the HR heads' perception, IIT Kanpur and IIT Bombay topped the list*

**Table D: 2005 Performance region-wise**

How They Stack Up

North		
S No	College	Overall Rank
1	IIT Kanpur	1
2	IT-BHU, Varanasi	5
3	Thapar Institute of Engg & Technology, Patiala	9
4	Netaji Subhash Institute of Technology, New Delhi	10
5	MN-NIT, Allahabad	12
South		
1	IIT Madras	3
2	NIT Warangal	7
3	NIT Trichy	8
4	NIT Suralkal	11
5	IIT Hyderabad	14
East		
1	IIT Kharagpur	4
2	IIT Guwahati	6
3	NIT Rourkela	17
4	Jadavpur University, Calcutta	25
5	SIT Kolkata (Formerly IIT)	27
West		
1	IIT Bombay	2
2	Government College of Engineering, Pune	24
3	Sardar Patel College of Engineering, Bombay	26



### **Box 21: A page from an article on Rediff that ranks engineering colleges in India.**

There are several glaring problems with the above selections.

1. They further aggravate regional disparity.
2. Even these 7 institutions are not the best non-IIT institutions. Among them only IIT BHU is better than all NITs. Four NITs (NIT Warangal, NIT Surathkal, NIT Trichi, and NIT Rourkela) are better than the other 6 in the list.

**If merit was the criteria why were these NITs not considered and the short listed institutions are now being funded to overtake the NITs.**

**Among these NITs, NIT Rourkela is in a state with no IITs or IISc. Upgrading it to an IIT or deemed IIT would have been a step forward towards decreasing the regional disparity. Why is not that being considered?**

One of the few people in an influential position who get it and have the courage to speak about it publicly is Professor Balchandra Mungekar, Member (Education), Planning Commission. He is reported to have said:

...

It said that the IITs should be spread as far and wide and all seven should be in seven different states where neither an IIT nor an IIM existed. "I suggested that institutes of national importance should be dispersed as widely as possible for balanced regional development," said Bhalchandra Mungekar, Member (Education), Planning Commission.

...

#### **3.4.2 No sense behind the selection of the new IIFT campus**

Recently it has been announced that a new IIFT branch will be established in Kolkata. IIFT offers MBA equivalent programs, and Kolkata already has an IIM. It would have been more useful to the country if the new IIFT branch was established in a city which does not yet have a premier government funded MBA institute rather than in a city which already has one such institute. Why was that not done? Who decides where such institutes are established and what logic do they use? Why is not it done in an open manner so that appropriate feedback can be given to the decision makers?

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**Deepak Goel**

New Delhi , Dec. 23

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**Placement:** Back at the New Delhi campus, a number of corporates are queuing up to deliver the pre-placement talks to the students with the formal placements scheduled for the first week of February for the 2004-2006 batch. Companies that have already delivered the pre-placement talks include ICICI, Accenture, Jindal Steel and CSC among others. More than 75 companies would confirm for placement this year, said Prof. Munish Bhargava, Placement Head, IIFT.

These companies would range from sectors like FMCG, financial services, IT and trading, he said. "Last year, 30 per cent of the students were hired by IT firms. But this year we expect financial services and FMCG companies to hire more students," said Prof. Bhargava.

Speaking about the composition of the students who would take part in the placements in February, Prof Bhargava said about half of them have 0-1 year of experience while the other half have more than one year of experience. Seventy two per cent of the students have engineering background, 11 per cent have commerce and eight per cent have science background.

IIFT, founded 40 years ago, offers a two-year degree in Master of Business Administration in International Business. The average salary for the 2003-05 batch was Rs 7.28 lakh.

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### Box 22: An article in Hindu about a new IIFT campus in Kolkata.

## Chapter 4: Last word: Our humble request

It may appear that in this document we are picking on West Bengal. We are not against West Bengal or Maharashtra or for that matter any other state of India. We are not against having an IISER in Pune and Kolkata. The more such premier institutes in India the better. In particular, we are proud of West Bengal and its achievements and inspired by it.

All we want is that HR being the most important resource of a state, funding for its development should be equitable across all states, and as a start an NIS/IISER/equivalent should be established in Bhubaneswar (as announced earlier) immediately.

As we can not have two states (with roughly equal area and roughly twice the population) where one has 10-15 times the length of the national highways than the other, similarly we should not have one state with 10-15 times the funding on national institutes than another. Thus HRD ministry and the planning commission should make an emergency plan so that it spends at least 1/3rd, if not half, of what it spends in West Bengal, in Orissa. They should do similar actions for correcting the imbalance with respect to other HRD neglected states such as Chhatisgarh and Rajasthan.

In general its our humble prayer that the powers to be pay immediate serious attention towards achieving regional balance in centrally funded higher education and technical institutions so that all parts of the country prosper together, every citizen in every state has the opportunity to excel, and every state has the opportunity to produce highly educated human resources.

**Finally, after all the neglect and injustice that has been done to Orissa, the government should not aggravate the situation by establishing IISERs with the new larger budget in Pune and Kolkata and an NIS with the old smaller budget in Bhubaneswar. As we argued before the NIS and IISERs are same in all but name, and the change in the funding level is only due to the increase in Science and Technology funding with respect to all institutes over the last few years. Thus establishing an NIS in Bhubaneswar with the old smaller budget will further reinforce the neglect and injustice done to Orissa over the years. We sincerely request that an NIS/IISER/equivalent be immediately established in Bhubaneswar with a budget similar to the budget of the proposed IISERs.**

Note: We must note that most other departments of the central government during the current UPA regime have dealt with Orissa and Orissa issues fairly, promptly and equitably. This includes support towards roads and railways necessary for the vigorous industrialization activities going on in Orissa, though much more needs to be done. *It is mainly the current HRD ministry that is treating Orissa like dirt.* The record of past HRD ministries is equally bad, except that during the last NDA regime all RECs were converted to NITs and the government had announced, but not fully executed, the establishment of an NIS in Bhubaneswar.

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### UPA plans to gift allies home IITs

Wednesday November 9 2005 00:00 IST

NEW DELHI: The UPA government's plan to help large political allies by setting up not one but two new IITs in their states has been opposed by the Planning Commission.

As against promoting wider access by spreading the new IITs throughout the country, the Ministry of Human Resource Development proposed West Bengal, Andhra Pradesh, Kerala and Uttar Pradesh as beneficiaries of the new IITs.

The S K Joshi Committee recommended that the Bengal Engineering College and Jadhavpur University (West Bengal), Osmania University and Visakhapatnam University (Andhra Pradesh), Benares Hindu University and Aligarh Muslim University (Uttar Pradesh) and Cochin University of Science & Technology (Kerala) be converted to IITs.

The rationale given by the committee was that these institutes have the infrastructure and prestige to upgrade them to the level of IITs, as announced by then Prime Minister on August 15, 2003.

But on October 21, the Planning Commission turned down the venues, saying it went against the National Common Minimum Programme of providing quality, access and equity in technical education.

It said that the IITs should be spread as far and wide and all seven should be in seven different states where neither an IIT nor an IIM existed. "I suggested that institutes of national importance should

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## Appendix

### A.1 CM's letters to the PM

#### A.1.1 CM of Orissa Naveen Patnaik's letter to the PM on 23rd Aug 2005

D.O.No UM.1/05-421/CM

Dear Prime Minister Ji:

This is regarding establishment of National Institute of Sciences at Bhubaneswar. In this connection it may be mentioned that Chairman, University Grants Commission had communicated to Vice Chancellor, Utkal University, Utkal University about establishment of one of the centers at Bhubaneswar vide his D.O.No.F-1-74/2003(CM) dated 23.07.2003. Steps have been taken by my government to identify necessary land for the purpose.

Newspaper reports have appeared stating that the Institute is now getting shifted to Kolkata. If these reports are correct, I would like to point out that this will be a reversal of the decision of NDA government. Orissa has neither an IIT nor IIM or even an IIIT nor a central university. I, therefore, urge you to kindly sanction establishment of National Institute of Science under Government of India at the earliest for which state government have already completed works like identification of land as per the advice of U.G.C.

with regards  
yours sincerely

Naveen Patnaik

#### A.1.2 CM Naveen Patnaik's letter to the PM on 29th Sept 2005

D.O.No UM.1/05-491/CM

Dated 29.09.2005

Dear Prime Minister Ji:

Kindly refer to my D.O. letter No UM.1/05-421/CM., Dated 23.08.2005 regarding establishment of National Institute of Sciences at Bhubaneswar. As I had mentioned, Orissa was favoured with establishment of the National Institute of Sciences which was communicated to us by the Chairman, University Grants Commission vide their letter No. F-1-74/2003(CM) dated 23.7.2003 and accordingly my Government had gone ahead for selection of a suitable site for the same. In the meantime, the site has already been selected. It is worth mentioning that in the past Orissa has not been favoured with either an IIT or IIM or any other Central University. The current spurt in the industrial activity in the State makes it a deserving location for establishment of National Institute of Sciences at Bhubaneswar.

I would, therefore, request you to kindly take immediate steps for establishment of National Institute of Sciences at Bhubaneswar for which Government of India had given definite commitment and any deviation at this stage would bring wide spread discontentment among the people of the state.

with regards  
yours sincerely

Naveen Patnaik

### A.1.3 CM Naveen Patnaik's letter to the PM on 11th Nov 2005

D.O.No UM.1/05-547/CM

Dated 11.11.2005

Dear Prime Minister Ji:

The news item that the National Institute of Sciences is now being set up at Kolkata instead of Bhubaneswar has aroused widespread public discontentment. Of late, there has been a public interest litigation in the High Court of Orissa praying that the Institute should not be shifted from Orissa. The people of Orissa feel letdown by the decision to shift the Institute to Kolkata particularly because the Chairman, University Grants Commission had, as early as 23.07.2003, indicated establishment of the Institute in Orissa. The site for the institute has already been selected and the change of decision at this stage is a serious set back to us. I have taken up the matter with you twice vide my D.O. letter No UM.1/05-421/CM., Dated 23.08.2005 and No UM.1/05-491/CM., Dated 29.09.2005.

I once again strongly urge that the earlier decision of Government of India may please be honoured and the institute set up in Orissa.

with regards  
yours sincerely

Naveen Patnaik

### A.2 A sample letter sent by thousands of Oriyas: Open letter to the Prime minister of India -- Gross Injustice done to Orissa

To: Dr. Manmohan Singh  
South Block,  
Raisina Hill,  
New Delhi, India-110011.  
Telephone: 91-11-23012312.  
Fax: 91-11-23019545 /91-11-23016857.  
email: <http://pmindia.nic.in/write.htm>

cc: Smt. Sonia Gandhi President:  
INDIAN NATIONAL CONGRESS  
24, Akbar Road, New Delhi – 110011 ,  
INDIA TEL : 91-11-23019080  
FAX : 91-11-23017047  
email: [aicc@congress.org.in](mailto:aicc@congress.org.in)

Dear Esteemed Prime minister:

On 9th December 2003, the then HRD minister Professor M. M. Joshi had announced that UGC had established steps to initiate four National Institute of Sciences at Bhubaneshwar, Chennai, Pune and Allahabad. This is documented in the UGC web document [4] and the press release [5] by the Ministry of Human Resource Development and Science & Technology, dated 10th December, 2003. As of today both are available, directly or in archival sites, in the Internet.

Sir, Recently on September 28, 2005 [6] you have announced the setting up of an Indian Institute of Science for Education and Research (IISER) at Pune and Kolkata, respectively.

Sir, The aim of the National Institute of Sciences that Professor Joshi had announced in December 2003 is the

same as the proposed IISERs. Thus, NIS and IISER, though they defer in their names; as proposed institutions, both refer to the same concept. In fact the CM of West Bengal has referred to it [10] as National Institute of Sciences.

Sir, It is extremely unfair on your part, and gross injustice to Orissa that previously announced Bhubaneswar is excluded from your list of announced IISERs. Perhaps, the other announced (and now unmentioned in the context of IISER) locations Chennai and Allahabad are not as much concerned as they already have an IIT and an IIIT respectively, or perhaps they have been placated with promises. But for Bhubaneswar and Orissa this is a matter of survival [7,8], as Orissa does not have any central university [1], any institution of national importance [2] (such as IITs, ISI, etc.), any reputed centrally funded institute such as an IIM, or any centrally funded IIIT or IIITM. It also does not have an autonomous science and technology institution of the department of science and technology as listed in [3]. Moreover, there is a high likelihood that when additional IISERs are established, Bhubaneswar will not be one of them as many would then argue for a regional balance. Thus this wrong needs to be corrected now.

Sir, It is unacceptable of a government of India and Prime minister of India to change an educational investment decision made by an earlier government, especially related to a state like Orissa which has historically very little central government investment in higher education.

Sir, if every new central government callously changed the decision of the previous Government, seemingly based on the (lack of) strength of the ruling party representation of that state, and particularly in the area of long term projects like the IISER; it will set a wrong precedent, and will be disastrous in the long run because no decisions will be final and binding. And such reversal of decisions will lead to perpetual friction among the regional groups and interests leading to reversal of forces of national integration. Thus the negation of the NIS decisions made by the previous government, besides being a gross injustice to Orissa, is a big blow to India's democracy and regional balance and all round development. It is reported in [9] that you recently (around the same time as [6]) addressed the regional imbalance issue in terms of educational institutions and said "I trust our government as well the state governments will take note of these findings and evolve policies to remedy these regional imbalances." In light of this your Government's action of excluding the announced and planned for NIS/IISER in Bhubaneswar is utterly inexplicable, and makes your word sound hollow.

Sir, our Indian system of proportional representation makes smaller states like Orissa susceptible to such injustice and neglect. That is where we expect statesman like you, Smt. Sonia Gandhi, and Mr. Arjun Singh to lead, rise above politics, and make sure resources are fairly distributed across the country and comparatively smaller and weaker states are protected and not bullied by power centers with larger representations.

Sir, according to newspaper reports, our chief minister wrote to you about this, but to no avail, so far.

Sir, Orissa has been severely wronged by your recent action of ignoring previously announced Bhubaneswar for an NIS/IISER. As an admirer of your simplicity, honesty, fairness, and erudition, I am deeply disturbed and disappointed by this action of your Government. With tears in my eyes, I sincerely request you to reconsider your decision and at least add back Bhubaneswar to the initial list of IISERs, thus bringing back dignity and a sense of fair play to the Government of India, and rescuing Orissa from successive central Government's neglect in the higher education arena.

I must add that in a few areas your Government has been a bit more responsive to Orissa; although there is need for more. This includes decisions regarding important infrastructure matters as well as health matters. In particular, we thank your Government for continuing with the promised AIIMS-like institutions, although not much has been done in the ground yet. Please note that an AIIMS is not a broad educational institution with the breadth of an IIT, IISc or a central university. Thus, the AIIMS decision, should not be held against Orissa. \*If and only if\* someone has used or uses it against Orissa, then it should be pointed out to them that the state of West Bengal where one of the IISERs is proposed has an IIT in Kharagpur, a central University in Shanti Niketan, two additional institutes of national importance in an IIM and an Indian Statistical institute (ISI), and three autonomous science and technology institutions [3], all in Kolkata. Similarly, the state of Maharashtra where the other IISER is proposed, has the Armed Forces Medical College (AFMC) in Pune, an IIT in Mumbai, and three other autonomous science and technology institutions [3]. As mentioned earlier Orissa does not have any central university, any institute of national importance (such as an IIT, IIM, ISI, etc.), and nor any autonomous science and technology institution [3]. Just to clarify, I am not against IISERs in Kolkata and Pune; I just want your government to undo the injustice done to Orissa by not taking away from it an announced and planned for NIS/IISER.



Sir, if you have any doubts about Orissa's preparedness to help jump start an IISER at short notice or regarding Orissa's commitment and past efforts towards higher education and scientific research, I would like to point you to [7] <http://www.public.asu.edu/~cbaral/orissa/nis-why.html> for additional information on this. Also, I am pretty sure that our Chief Minister will be happy to allay any concerns that you may have.

sincerely,

References:

- [1]. List of central Universities <http://www.ugc.ac.in/inside/utype.php?st=Central%20University>, <http://www.education.nic.in/htmlweb/autbod.htm> (NONE in Orissa)
- [2]. List of Institute of National Importance from <http://www.ugc.ac.in/inside/utype.php?st=Institute%20of%20National%20Importance> (NONE in Orissa)
- [3]. List of autonomous Science and Technology Institutions from [http://dst.gov.in/autonomous/autonomous\\_index.htm](http://dst.gov.in/autonomous/autonomous_index.htm) (NONE in Orissa)
- [4]. A document titled "Modern Technologies - the only alternative for Expansion of Higher Education" which is at [http://www.ugc.ac.in/pub/jan\\_2004/12.htm](http://www.ugc.ac.in/pub/jan_2004/12.htm) It is about Prof. MM Joshi (the then HRD minister of India)'s address on 9th December 2003 and includes the following:  
  
"Dr. Joshi also informed the members about the steps initiated by the UGC for improving the relevance and quality of teaching and research, such as introduction of utility-oriented programmes along with the traditional degree; identifying the universities with potential for excellence; to establish four National Institutes of Sciences at Bhubaneswar, Chennai, Pune and Allahabad; monitoring the universities using parameters for academic performance, research performance and governance and providing incentives to universities and colleges scoring high on these parameters."  
[5]. In the Ministry of Human Resource Development and Science & Technology's Press release, dated 10th December, 2003 still available at <http://pib.nic.in/archieve/lreng/lyr2003/rdec2003/10122003/r1012200313.html> and titled INFORMATION COMMUNICATION TECHNOLOGY TO BE USED IN A BIG WAY FOR EXPANSION OF HIGHER EDUCATION: DR JOSHI UNIVERSITIES ASKED TO COMPLY WITH UGC REGULATIONS WITHIN THREE MONTHS CONSULTATIVE COMMITTEE OF HRD MINISTRY MEETS it includes the following:  
  
"... The meeting was also informed of the steps initiated to improve the quality of teaching and research. It was informed that at post-graduate level a credit-based, modular approach is being introduced. UGC has recently upgraded monetary support at individual, group and department levels and has opened for colleges such incentive schemes as were earlier confined to universities. While five universities were identified this year, with potential for excellence, viz. Chennai, Hyderabad, Jadhavpur, Pune and Jawaharlal Nehru Open University, five more universities will be identified next year to promote excellence among universities especially in matters of research. Four national-level institutes are also being established at Bhubaneswar, Chennai, Pune and Allahabad. ..."  
[6]. <http://pib.nic.in/release/release.asp?relid=12305> Wednesday, September 28, 2005 Prime Minister's Office PM CLEARS NEW INSTITUTES OF SCIENCE IN PUNE AND KOLKATA 20:20 IST  
"Prime Minister Dr Manmohan Singh has approved the setting up of an Indian Institute of Science for Education and Research (IISER) at Pune and Kolkata, respectively. The Union Ministry for Human Resource Development has been authorized to fund both the institutes this year, so that they can become operational in 2006. ..."  
[7]. <http://www.public.asu.edu/~cbaral/orissa/nis-why.html>  
[8]. <http://www.public.asu.edu/~cbaral/orissa/iit-nis.html>  
[9]. <http://in.rediff.com/news/2005/sep/28pm1.htm>  
[10]. [http://www.telegraphindia.com/1051004/asp/bengal/story\\_5317968.asp](http://www.telegraphindia.com/1051004/asp/bengal/story_5317968.asp) last but one paragraph.

### A.3 A letter to the planning commission

Date: Nov 1, 2005 11:48 AM

Subject: A letter to the Indian planning commission members from an Indian origin professor in the US

To: Esteemed Planning Commission Members of India

Subject: <http://www.iiser.blogspot.com/>

Dear members:

I would like to bring to your notice the following article from Telegraph [http://www.telegraphindia.com/1051029/asp/calcutta/story\\_5412063.asp](http://www.telegraphindia.com/1051029/asp/calcutta/story_5412063.asp) which says that "In July 2005, the Planning Commission, after examining the ministry for human resource development proposal, recommended that instead of five cities, only Calcutta and Pune should house the centre." It refers to the National Institute of Sciences which was originally planned for Bhubaneswar, Pune, Chennai and Allahabad and was later renamed to IISER.

Dear Sirs: I wonder if you considered the distribution of central universities, and institutes of national importance (IITs, IIMs, ISIs etc.) across India? Many states have multiples of them while states like Orissa, Rajasthan, Chhatisgarh etc. have none. They happen to be backward in many indices. Please see <http://iiser.blogspot.com/2005/10/unequal-distribution-of-higher.html> for the distribution.

Do you think this is fair?

Do you think some states should have many of them while others have none, even though they (such as Orissa) have shown that they can nurture good institutions?

Do you think the way to improve backward states is to take away planned 500 or higher education institutions from them?

Dear Sirs: It is a gross injustice that you took the dream (of NIS/IISER) away from the people of Orissa, which does not have a single central university, IIT, IIM, IISc, etc. and yet has on its own initiated the development of quality institutions such as Inst of Physics, Inst of Life Sciences and Xaviers Institute of Management.

Dear Sirs: You are supposed to watch out and plan for all of India; especially, since in India (unlike the US where each state has 2 senators) larger states have more MPs thus more power and smaller states have less power. With due respect, by approving the removal of Bhubaneswar from the list of IISERs, you have not done your job appropriately and have done grave injustice to Orissa, and perhaps to the fabric of India.

We sincerely hope you will make appropriate amends at the earliest, and if the political leadership (which so far has not considered it appropriate to reply to hundreds if not thousands of letters and emails sent to them over the last month) does not allow you to correct the injustice then you should consult your conscience about what to do. Please see <http://www.iiser.blogspot.com/> about the details of your injustice and some thoughts on how to amend it.

sincerely,

Chitta Baral

### A.4 Indian democracy in work: letters to PM and Planning commission are not answered and not even acknowledged

We often pride ourselves of being the largest democracy in the world. Thousands of letters were sent to the PM, many to the UPA Chairperson Smt. Gandhi, many letters were sent to the President and several letters were sent to the planning commission. None

have been answered or even acknowledge. We often compare our country to the other big democracy, the United States. Letters sent to the President of US or to senators there are answered promptly. Thus we have a long way to go before our PM, President and planning commission start thinking themselves as for the people, by the people, and of the people rather than as rulers and fiefs.

## A.5 List of Institutes of national Importance

::: Universities - University Grant Commission :::

Page 1 of 2

The screenshot shows the official website of the University Grants Commission (UGC) of India. The header includes the UGC logo, the text 'University Grants Commission', and the tagline 'ensuring quality higher education for all'. Below the header is a navigation menu with options like 'Home', 'About Us', 'Organization', and 'Policy'. A search bar is also present. The main content area is titled 'Universities' and lists various institutes under the category 'Institute of National Importance'. Each entry includes the institute's name, location, and a link to more information.

**Universities**

Type-> **Institute of National Importance**

- Indian Institute of Technology Guwahati, North Guwahati Guwahati - 781 039 Assam  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Postgraduate Institute of Medical Education and Research, Chandigarh - 160 012 Chandigarh  
Type: Institute of National Importance (Not Funded By UGC) < more >
- All India Institute of Medical Sciences, Ansari Nagar New Delhi - 110 20 Delhi  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Indian Institute of Technology Delhi, Hauz Khas New Delhi - 110 016 Delhi  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Sree Chitra Tirunal Institute For Medical Sciences and Technology, Thiruvananthapuram - 695 011 Kerala  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Indian Institute of Technology Mumbai, Powai, Mumbai - 400 076 Maharashtra  
Type: Institute of National Importance (Not Funded By UGC) < more >
- National Institute of Pharmaceutical Education and Research, Sector 67, SAS Nagar (Mohali) 160 062 Punjab  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Dakshina Bharti Hindi Prachar Sabha, PB No.1419 Thyagaraya Nagar Chennai - 600 017 Tamil Nadu  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Indian Institute of Technology Madras, Chennai - 600 036 Tamil Nadu  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Indian Institute of Technology Kanpur, Kanpur - 208016 Uttar Pradesh  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Indian Institute of Technology, Roorkee, 247667 Roorkee Uttaranchal  
Type: Institute of National Importance ( ) < more >
- Indian Institute of Technology Kharagpur, Kharagpur - 721 302 West Bengal  
Type: Institute of National Importance (Not Funded By UGC) < more >
- Indian Statistical Institute, 203 Barrackpore Trunk Road Calcutta -

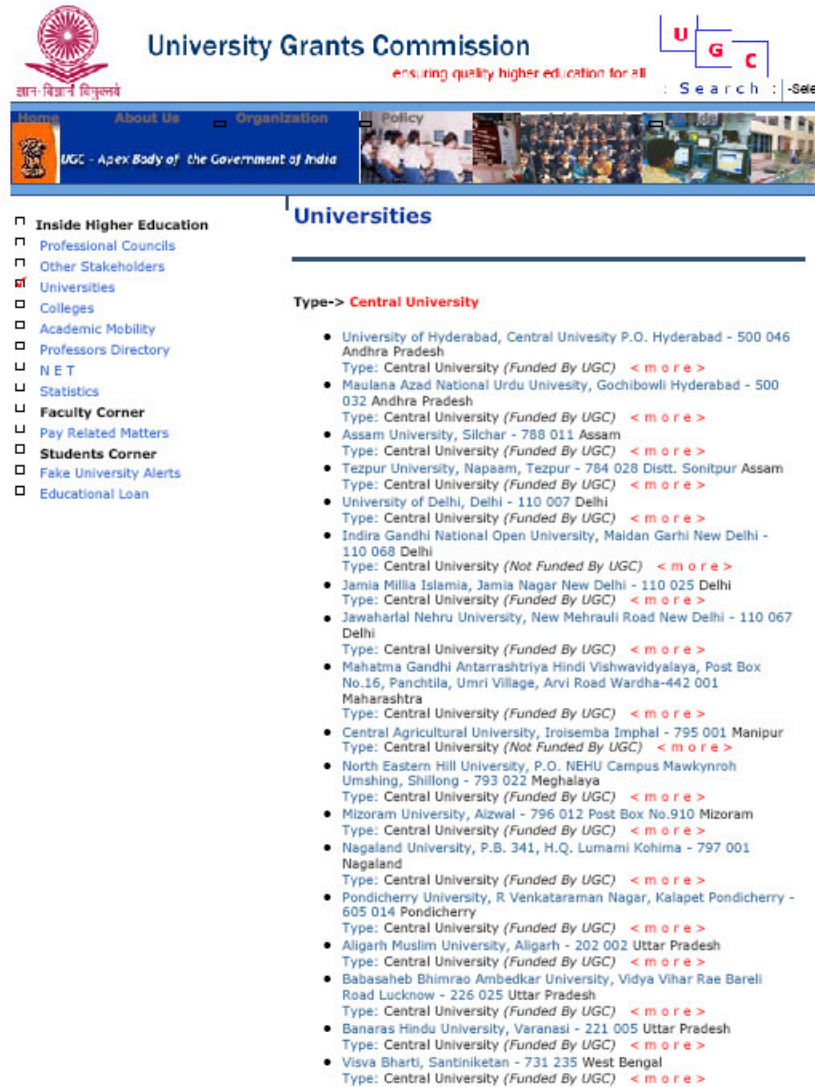
<http://www.ugc.ac.in/inside/utype.php?st=Institute%20of%20National%20Importance>

1/4/2006

## A.6 List of central universities

::: Universities - University Grant Commission :::

Page 1 of 2



The screenshot shows the official website of the University Grants Commission (UGC) of India. The header includes the UGC logo, the text "University Grants Commission" with the tagline "ensuring quality higher education for all", and a search bar. Below the header is a navigation menu with links for Home, About Us, Organization, and Policy. A sidebar on the left contains a list of categories: Inside Higher Education, Professional Councils, Other Stakeholders, Universities (selected), Colleges, Academic Mobility, Professors Directory, N E T, Statistics, Faculty Corner, Pay Related Matters, Students Corner, Fake University Alerts, and Educational Loan. The main content area is titled "Universities" and displays a list of central universities under the heading "Type-> Central University". Each entry includes the university name, location, and a "more" link.

**Universities**

Type-> **Central University**

- University of Hyderabad, Central University P.O. Hyderabad - 500 046 Andhra Pradesh  
Type: Central University (Funded By UGC) < more >
- Maulana Azad National Urdu University, Gochibowli Hyderabad - 500 032 Andhra Pradesh  
Type: Central University (Funded By UGC) < more >
- Assam University, Silchar - 788 011 Assam  
Type: Central University (Funded By UGC) < more >
- Tezpur University, Napaam, Tezpur - 784 028 Distt. Sonitpur Assam  
Type: Central University (Funded By UGC) < more >
- University of Delhi, Delhi - 110 007 Delhi  
Type: Central University (Funded By UGC) < more >
- Indira Gandhi National Open University, Maidan Garhi New Delhi - 110 068 Delhi  
Type: Central University (Not Funded By UGC) < more >
- Jamia Millia Islamia, Jamia Nagar New Delhi - 110 025 Delhi  
Type: Central University (Funded By UGC) < more >
- Jawaharlal Nehru University, New Mehrauli Road New Delhi - 110 067 Delhi  
Type: Central University (Funded By UGC) < more >
- Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Post Box No.16, Panchtila, Umri Village, Arvi Road Wardha-442 001 Maharashtra  
Type: Central University (Funded By UGC) < more >
- Central Agricultural University, Iroisemba Imphal - 795 001 Manipur  
Type: Central University (Not Funded By UGC) < more >
- North Eastern Hill University, P.O. NEHU Campus Mawkynroh Umshing, Shillong - 793 022 Meghalaya  
Type: Central University (Funded By UGC) < more >
- Mizoram University, Aizwal - 796 012 Post Box No.910 Mizoram  
Type: Central University (Funded By UGC) < more >
- Nagaland University, P.B. 341, H.Q. Lumami Kohima - 797 001 Nagaland  
Type: Central University (Funded By UGC) < more >
- Pondicherry University, R Venkataraman Nagar, Kalapet Pondicherry - 605 014 Pondicherry  
Type: Central University (Funded By UGC) < more >
- Aligarh Muslim University, Aligarh - 202 002 Uttar Pradesh  
Type: Central University (Funded By UGC) < more >
- Babasaheb Bhimrao Ambedkar University, Vidya Vihar Rae Bareilly Road Lucknow - 226 025 Uttar Pradesh  
Type: Central University (Funded By UGC) < more >
- Banaras Hindu University, Varanasi - 221 005 Uttar Pradesh  
Type: Central University (Funded By UGC) < more >
- Visva Bharti, Santiniketan - 731 235 West Bengal  
Type: Central University (Funded By UGC) < more >

<http://www.ugc.ac.in/inside/utype.php?st=Central%20University>

1/4/2006

## A.7 List of autonomous science and technology institutes

Welcome to Department of Science and Technology, Govt. of India ::

Page 1 of 1



The screenshot shows the homepage of the Department of Science & Technology, Ministry of Science & Technology, Government of India. The header includes the department's name in English and Hindi, along with navigation links for Home, Sitemap, Search, Feedback, and FAQs. Below the header, there are several menu items: About DST, Scientific Programmes, S&T System in India, Scientific Services, and Administration & Finance. The main content area is titled "Autonomous S&T Institutions" and lists 20 institutes, each with a radio button next to its name. The list includes:

- Agharkar Research Institute, Pune
- Aryabhata Research Institute of Observational-Sciences, Nainital
- Birbal Sahni Institute of Palaeobotany, Lucknow
- Bose Institute, Kolkata
- Centre for Liquid Crystal Research, Jalahalli, Bangalore
- Indian Association for the Cultivation of Science, Kolkata
- International Advanced Research Centre for Powder Metallurgy and New Materials, Hyderabad
- Indian Institute of Astrophysics, Bangalore
- Indian Institute of Geomagnetism, Mumbai
- Indian Institute of Tropical Meteorology, Pune
- Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore
- National Accreditation Board for Testing & Calibration Laboratories, New Delhi
- Raman Research Institute, Bangalore
- S.N. Bose National Centre for Basic Sciences, Kolkata
- Sreechitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram
- Technology Information, Forecasting & Assessment Council (TIFAC), New Delhi
- Vigyan Prasar, New Delhi
- Wadia Institute of Himalayan Geology, Dehradun

At the bottom of the page, there are links for Home, Sitemap, Search, Feedback, FAQs, Contact Us, and Disclaimer. The copyright notice reads "Copyright © 2005 Department of Science and Technology" and the page is marked as "Developed".

[http://dst.gov.in/autonomous/autonomous\\_index.htm](http://dst.gov.in/autonomous/autonomous_index.htm)

1/4/2006

## A.8 The people and entities whose job is to report or correct the imbalances

### A.8.1 The PM and Smt. Gandhi: See A.2

### A.8.2 Eight members of the 10 member SAC-PM

Chair: Dr C N R Rao  
Ashok Jhunjunwala

cnrrao@jncasr.ac.in, Bangalore  
ashok@tenet.res.in, Chennai

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Dr. Syed Hasnain director@cdfd.org.in, Hyderabad  
Dr K VijayRaghavan vijay@ncbs.res.in, Bangalore  
Dr Swati A Piramal spiramal@nicholaspiramal.co.in, Mumbai  
Prof P Balram diroff@admin.iisc.ernet.in, Bangalore  
Professor S.G. Dhande, sgd@iitk.ac.in, Kanpur

### **A.8.3 The Planning Commission**

Dr. Manmohan Singh, New Delhi manmohan@sansad.nic.in  
Shri Montek Singh Ahluwalia, New Delhi dch@yojana.nic.in  
Shri M.V. Rajashekharan, Bangalore, Minister of State mvraja@yojana.nic.in  
Dr. Kirit Parikh, New Delhi kirit.parikh@yojana.nic.in  
Prof. Abhijit Sen, New Delhi abhijit.sen@yojana.nic.in  
Dr. V.L. Chopra, New Delhi vl.chopra@yojana.nic.in  
Dr. Bhalchandra Mungekar, Mumbai b.mungekar@yojana.nic.in  
Dr.(Ms.) Syeda Hameed, New Delhi s.hameed@yojana.nic.in  
Shri B.N. Yugandhar, Hyderabad yugandhar.bn@nic.in  
Shri Anwar-ul-Hoda, New Delhi anwarul.hoda@yojana.nic.in

### **A.8.4 The national media**

[toieditorial@timesgroup.com](mailto:toieditorial@timesgroup.com), [salil@hindustantimes.com](mailto:salil@hindustantimes.com), [letters@outlookindia.com](mailto:letters@outlookindia.com),  
[info@newindpress.com](mailto:info@newindpress.com), [thehindu@vsnl.com](mailto:thehindu@vsnl.com), [letters@thehindu.co.in](mailto:letters@thehindu.co.in), [letters-  
ie@expressindia.com](mailto:letters-<br/>ie@expressindia.com), [letters@deccanherald.co.in](mailto:letters@deccanherald.co.in), [letters@tribuneindia.com](mailto:letters@tribuneindia.com),  
[feedback@tehelka.com](mailto:feedback@tehelka.com), [editor@expressindia.com](mailto:editor@expressindia.com), [ttedit@abpmail.com](mailto:ttedit@abpmail.com),  
[ratnam@intoday.com](mailto:ratnam@intoday.com), [editor@the-week.com](mailto:editor@the-week.com), [editor@deccanmail.com](mailto:editor@deccanmail.com),  
[shishir.joshi@aahtak.com](mailto:shishir.joshi@aahtak.com), [contact@bworldmail.com](mailto:contact@bworldmail.com), [mail@outlookindia.com](mailto:mail@outlookindia.com),  
[bleditor@thehindu.co.in](mailto:bleditor@thehindu.co.in), [itgo@india-today.com](mailto:itgo@india-today.com), [editet@timesgroup.com](mailto:editet@timesgroup.com).  
NDTV: <http://www.ndtv.com/feedback/default.asp>  
India-Today: <http://www.indiatoday.com/itoday/index.html>

### **A.9 The complete “Detailed Project Report” (DPR) document on the NISs.**



**Back Cover page: Show the following quotes in a creative way (perhaps using clouds)**

it is evident that there is not much difference between NISs and IISERs except the name and the almost doubling of the sizes. To claim that the doubling of the targeted size make them different is as ludicrous as saying IIT Kharagpur is no longer IIT Kharagpur if its student population (and budget) doubles. in response to Mr. Basudeb Acharya's statement that "I don't think what Kolkata is getting is same as what was granted to Bhubaneswar", we say that just because one changes the name from NIS to IISER the institute does not become different; as a person does not become different when he or she changes the name

This also means that if the regional distribution pattern mentioned above is followed then there will not be any IISERs in Bhubaneswar. Thus what we have is NIS is renamed as IISERs and while one of the NISs was to be established in Bhubaneswar, none of the IISERs may be established in Bhubaneswar. Thus it is not off the mark to say that a subterfuge of renaming of NIS to IISER was adopted to shift an announced for NIS from Bhubaneswar to Kolkata.

Thus the total HRD spending in West Bengal five years back was approximately 98.51 crores. A similar calculation for Orissa, which has only NIT Rourkela, shows the HRD spending to be 7.7 crores. Thus the HRD ministry spends approximately 13 times more per year on institutions in West Bengal than on Orissa. After taking into account the population, the HRD ministry spends approximately 6-7 times more per capita on West Bengal residents than on Orissa residents. One can imagine how worse this will become if an NIS is not established in Bhubaneswar or an IISER is established in Kolkata or both. This ratio was infinite six years back when NITs were called RECs. At that time the HRD's funding on Orissa on fully funded central institutions was ZERO.

The folly continues: unchecked increase in regional imbalance

Even these 7 institutions are not the best non-IIT institutions. Among them only IT BHU is better than all NITs. Four NITs (NIT Warangal, NIT Surathkal, NIT Trichi, and NIT Rourkela) are better than the other 6 in the list.

If merit was the criteria why were these NITs not considered and the short listed institutions are now being funded to overtake the NITs.

One of the few people in an influential position who get it and have the courage to speak about it publicly is Professor Balchandra Mungekar, Member (Education), Planning Commission. He is reported to have said:

... It said that the IITs should be spread as far and wide and all seven should be in seven different states where neither an IIT nor an IIM existed. "I suggested that institutes of national importance should be dispersed as widely as possible for balanced regional development," said Bhalchandra Mungekar, Member (Education), Planning Commission.



In general its our humble prayer that the powers to be pay immediate serious attention towards achieving regional balance in centrally funded higher education and technical institutions so that all parts of the country prosper together, every citizen in every state has the opportunity to excel, and every state has the opportunity to produce highly educated human resources.

... establishing an NIS in Bhubaneswar with the old smaller budget will further reinforce the neglect and injustice done to Orissa over the years. We sincerely request that an NIS/IISER/equivalent be immediately established in Bhubaneswar with a budget similar to the budget of the proposed IISERs.

One can fathom the magnitude of the disparity by putting it in terms of roads. It would then mean, six years back Orissa did not have any HRD National highways while states like West Bengal had plenty and now the per capita HRD national highway in West Bengal would be 7 times more than in Orissa. This would of course be not acceptable with respect to roads, and indeed the national highway numbers of Orissa and West Bengal are comparable. But when it comes to HRD, the most important resource of a state, West Bengal has 6-7 times the HRD national highways (i.e, national institutes) than Orissa.

**HOW IS THIS ACCEPTABLE TO INDIA?**

**HOW DARE THE CENTRAL GOVERNMENT PLANS TO MAKE IT WORSE? HOW COME THE REST OF INDIA IS NOT OUTRAGED?**